

ADAM™ CellT Plus

A New Standard of Automated Cell Counter

Instruction Manual



All the materials in this user manual are protected by Korean and international copyright laws. They cannot be reproduced, translated, published or distributed without the permission of the copyright owner.

ADAM™ CellT Plus Instruction Manual

Website : www.nanoentek.com

E-mail : sales@nanoentek.com

NanoEntek, Inc.

851-14, Seohae-ro, Paltan-myeon, Hwaseong-si, Gyeonggi-do, 18531, Korea

Tel. +82-2-6220-7940

Fax. +82-2-6220-7999

NanoEntek America, Inc.

220 Bear Hill Road, Suite 102, Waltham, MA 02451, USA

Tel. +1-781-472-2558

Fax. +2-781-790-5649

The information in this manual is described as accurately as possible.

Firmware and software changes and updates may change without prior consent or notification.

Copyright © 2023 by NanoEntek, Inc.

All rights reserved. Published in Korea.

Documentation: **NESMU-ACTP-001E (V.1.0)**

Revision history: **V.0.0 DEC 2023**

V.1.0 DEC 2024

Table of Contents

Introduction	5
General Description	5
Technology	6
Basic principle of counting	7
Product contents.....	8
ADAM™ CellIT Plus	8
AccuPlus Slide & Reagent	8
Upon receiving the instrument	8
Product Description	9
Front view of ADAM™ CellIT Plus	9
Rear view of CellIT Plus	10
Graphical User Interface of ADAM™ CellIT Plus	11
Getting started.....	12
Environmental requirements	12
Power on and Initial Display	12
Error messages during booting	13
Count setting	14
General Operation	15
Quick Guide	15
Sample preparation	16
Cell counting	16
Measure	19
Run sample	19
Result analysis	20
Result Analysis - Error code	21
QC	22
QC Mode	22
QC Slide Edit	23
QC Slide Result Edit	24
QC Slide Result	25
Data	26
Data list	26
EDIT	27
IMAGE	28
SAVE	29

MAIL.....	30
Approval.....	31
Requestable	31
Requesting.....	32
Approvable.....	33
Approved.....	34
Setting.....	35
Setting.....	36
Wifi.....	36
Remote support.....	36
Update	37
Auto logout.....	37
Backup	37
Recovery	38
User	39
User	39
User manage.....	40
Privilege	41
Password Option	42
Log manage	43
Document manage	44
Deleted list	45
Power off.....	46
Lock	46
Power off.....	46
Maintenance and cleaning	47
Trouble shooting	48
Warranty.....	49
Technical specifications	50
Product list	51
Safety precautions	52
Mesures de sécurité	53
Safety symbols	54
Warnings	56
Technical support.....	57

Introduction

General Description

The ADAM™ CellIT Plus is a highly accurate dual fluorescence cell counter that uses AO (acridine orange) and DAPI to count total and dead cells and also provides a bright field channel for cell size measurement.



Introduction

Technology

Measuring the number of cells and their viability is an essential part of biological experiments and biopharmaceutical procedures. Traditionally, the hemocytometer and trypan blue exclusion method have been used to quantifying total cells, dead cells, and cellular viability. These manual methods have been widely adopted as a standard for cell counting, however, they have limitations.

Non-cellular debris, such as dust or tissue residues, can be miscounted as cells, and the trypan blue exclusion method is known to overestimate cellular viability. Additionally, manual counting is prone to user-to-user variability, impacting consistency and accuracy.

To address these challenges, NanoEntek has developed ADAM™ CellT Plus, an image-based fluorescence cell counter. It captures bright field images to quantify cell sizes while using two fluorescence images to quantify the number of total cells and dead cells.

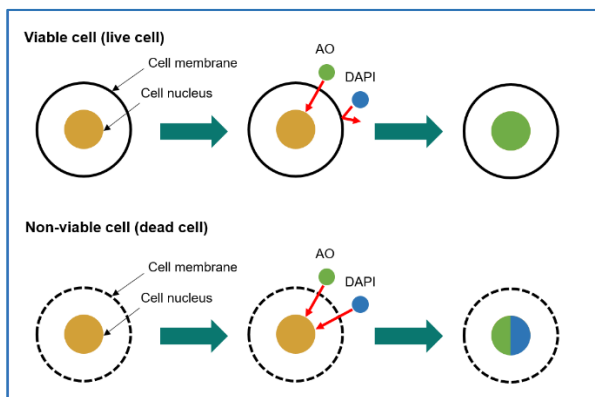
ADAM™ CellT Plus is designed to provide accurate, simple, and reliable results.

Introduction

Basic principle of counting

ADAM™ CellT Plus uses acridine orange (AO) and 4',6-diamidino-2-phenylindole (DAPI) to count total number of cells and number of dead cells, respectively. AO is a cell-membrane permeable dye that stains nucleus of every cells regardless of the cell's condition. Therefore, it is used to count total number of cells. DAPI is a cell-membrane impermeable dye that only stains nucleus of cells with damaged membranes or cells with inactive metabolism. Therefore, it is used to count number of dead cells. Schematics of counting principal is shown below. From total cell counts and dead cell counts, viability of cells is calculated as below;

Principle (Total cell count)



$$*Viability(\%) = \frac{(A-B)}{A} \times 100$$

A: Total cell / B: Non-viable cell

Product contents

ADAM™ CellT Plus

ADAM™ CellT Plus is shipped in a carton box containing followings;

Item	Quantity
Main device	1
User manual	1
USB hub	1
Wifi dongle	1
Power cord	1
Adapter	1
External Hard disk	1
Test Bead	1
QC slide (optional)	1
PC (only PC Mode)	1
Printer (optional)	1

AccuPlus Slide & Reagent

AccuPlus Slide and reagent has following supplies:

Item	AccuPlus Slide (Cat. No: AP4S-100)	Cell viability reagent (Cat. No: APAD-400)
Disposable Slide	100 pcs (4 channel)	N/A
Reagent	N/A	20 mL x 1 bottle
Available test Q'ty	400 test	

**These supplies are sold separately.*

Upon receiving the instrument

- Examine the instrument carefully for any damage incurred during transit.
- Ensure that all parts of the instrument including accessories listed above are included with the product.
- Any damage claims must be filed with the carrier.
- The warranty does not cover in-transit damage.
- Upon receipt, store AccuPlus Slide at room temperature. Cell viability reagent should be stored at 2~8°C

Product Description

Front view
of
ADAM™
CellT Plus

The front view of the ADAM™ CellT Plus is shown below:

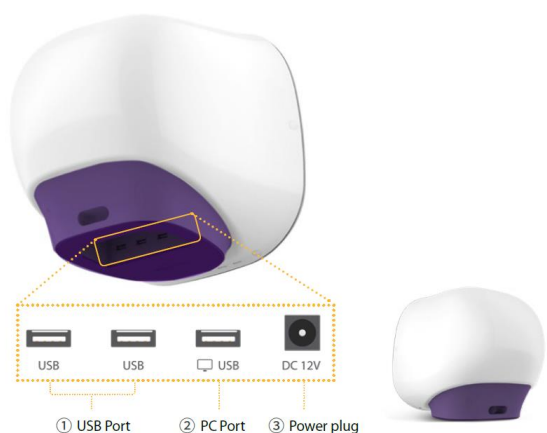


Components	Description
① Door	Allows the slide holder to move in and out of the instrument.
② Power	Turns the instrument on / off.
③ LCD	Serves as the main user interface for operating the instrument and viewing progress and results.

Product Description

Rear view of ADAM™ CellIT Plus

The rear view showing various parts of the ADAM™ CellIT Plus.:



Ports	Description
① USB Port	Port for software update and save the data.
② PC port	Connects with PC (Only PC Mode).
③ Power Plug	Connects the adapter plugged into a 12V power outlet to the ADAM CellIT Plus.

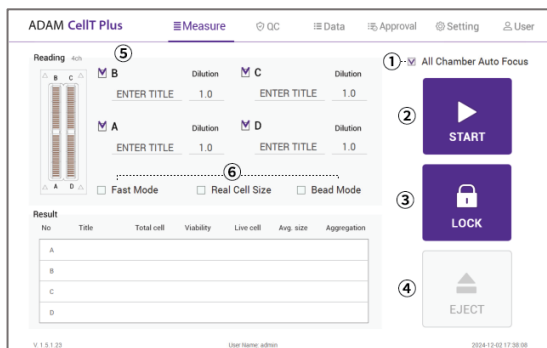
ⓘ CAUTION

Do not use the ② PC port with a flash drive. This port does not recognize a flash drive.

Product Description

Graphical User Interface of ADAM™ CellIT Plus

The graphic user interface of the ADAM™ CellIT Plus is shown below:



Control buttons	Description
① Auto Focus	Turn on/off the auto focus function. (If the auto focus function is turned off, the autofocus is only activated for the first measurement.)
② START	Performs all procedures of automatic counting.
③ LOCK	Protects the alignment of stage from external shock when ADAM™ CellIT Plus is being moved. Lock ADAM™ CellIT Plus before turning it off or moving it.
④ EJECT	Ejects the slide holder from ADAM™ CellIT Plus. Functions as unload.
⑤ Sample	Check the sample to be measured and enter the name. Also enter the dilution factor.
⑥ Mode	Select the measurement mode. The default mode is 13 frames for fluorescence and the Fast mode is 6 frames. Real cell size mode is a mode for measuring bright field images. Bead mode is for QC.

Getting started

Environmental requirements

! CAUTION

At low temperature ($\leq 10^{\circ}\text{C}$), allow the device to warm up for 10 minutes at ambient temperature before use. Not recommended for cold room use ($\leq 4^{\circ}\text{C}$).

To ensure correct operation and stable performance, install the ADAM™ CellT Plus in a location which meets the following conditions:

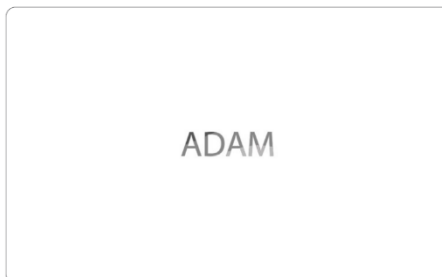
1. Use at room temperature between 20 and 35 °C
2. Do not expose the device to direct sunlight.
3. Do not subject the device to direct or continuous vibration.
4. Do not subject the device to intense magnetic or electromagnetic fields.
5. Do not install the device in high-humidity environment.
6. Location of device should be free from corrosive gases or other corrosive substances.
7. Ensure minimal contact with dust or other airborne particles.
8. Allow a 10 cm (4 inches) minimum space around the device for proper airflow.
9. Do not place any objects on top of the device.

Power on and Initial Display

1. Plug 12V power supply to the power port at the back of the instrument.
2. Press the power button in the front for 2–3 seconds to turn the instrument on.

If you get an error message, please contact your local distributor or sales@nanoentek.com.

If booting is successful and no errors are detected, the home screens will be displayed as below.



! CAUTION

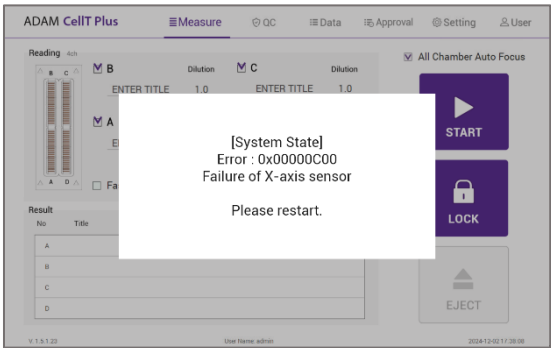
- Do not tilt the device too much in the forward when connecting the power cord.
- Do not move the device after connecting power cord.

When you connect the power cord to ADAM™ CellT Plus even without power on the device, it will go through self diagnostic tests.

Getting started

Error messages during booting

[System State : Error]



If the "System State" error message appears, it indicates that the boot process was not completed properly. To resolve this, press and hold the power button for at least 5 seconds to turn off the instrument. Wait until the instrument is completely turned off, and turn it back on by pressing and holding the power button for 2–3 seconds. If this message still appears after restarting, contact your local distributor or sales@nanoentek.com.

Error code	Cause
0x0000C00	Failure of X-axis sensor
0x00007000	Failure of Y-axis sensor
0x00008000	Failure of Z-axis sensor
0x0600000	Failure of Locking module sensor

Getting started

Count setting

[Cell size]

The initial counting range is set between 3 and 80, but the size can be adjusted to customize the counting range.

Cell size	Min	3	Max	100
-----------	-----	---	-----	-----

[Dilution factor]

If the sample was diluted before mixing with the CellT Plus reagent, set the dilution factor here. For example, if the sample was diluted 3-fold, enter "3" as the dilution factor.

 CAUTION

Factor values for the Cell viability reagent is already applied.

Dilution factor	1.0
-----------------	-----

 CAUTION

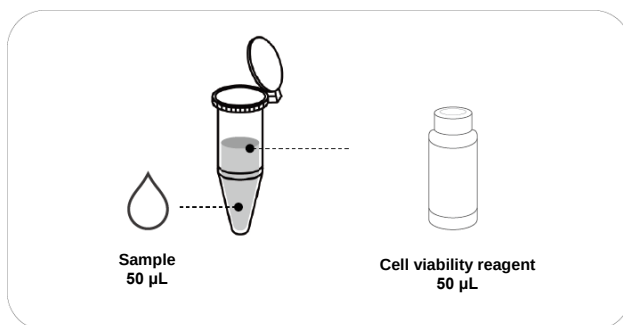
In Bead mode and QC mode, adjustments to [Cell size] and [Dilution factor] will not be applied.

General Operation

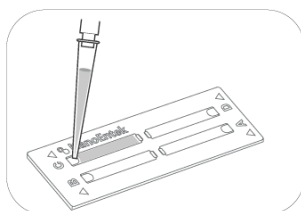
Quick Guide

Instruction is provided in this section for preparing the sample with Cell viability reagent for use with disposable AccuPlus Slide for automated cell count using the ADAM™ CellIT Plus. Please follow these steps to prepare samples and run tests.

1. Mix the sample and the cell viability reagent at a 1:1 ratio. The recommended ratio is mixing 50µL of the sample with 50µL of cell viability reagent. Then, mix thoroughly.



2. Take 15µL of the mixed sample and load it into each chamber of the AccuPlus slide. Wait for 1 minute on a flat surface to allow cells to settle.

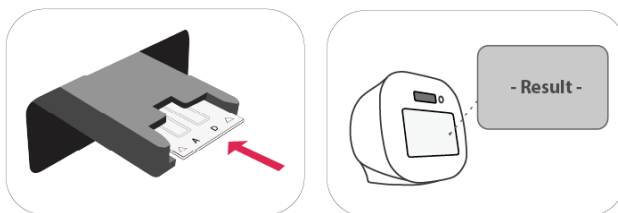


⚠ CAUTION

1. This waiting step is essential for ensuring accurate measurements.
2. A chamber that has been loaded with a sample cannot be reused.

General Operation

3. Insert the AccuPlus Slide into the slide holder. Press the START button to begin the measurement and obtain the results.



Sample preparation

1. Cultivate the required number of cells.

NOTE

Concentration out of this range will result in errors. Refer to page 20 for more information about errors.

2. Thoroughly mix the cell pellet by vortexing or pipetting.
3. Check visually if any cell clumps or agglomerates remain.

Cell counting



[AccuPlus Slide 4 ch]

Counting cell

- 1) Add 50 μ L of your sample to 50 μ L supplied Cell viability reagent.
- 2) Pipette or vortex the tube vigorously.
- 3) Load 15 μ L sample mixture to the AccuPlus Slide A,B,C or D channel.
Then, wait 1 minute for settling down.

NOTE

When loading the sample mixture to the AccuPlus Slide, take care to avoid creating bubbles.

General Operation

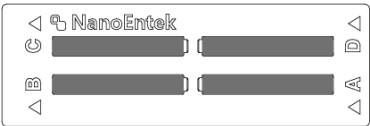
Cell counting

⚠ WARNING

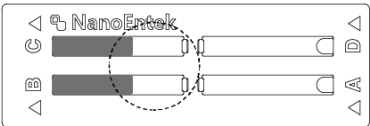
[Sample loading error]

When loading the sample into the AccuPlus Slide, ensure the correct volume of 15µL is used. Incorrect sample volumes, either too low or too high, may result in inaccurate results.

Correct volume

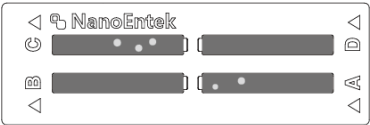


Low volume



⚠ CAUTION

Avoid bubbles which may negatively affect the result.



General Operation

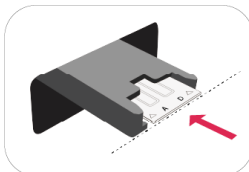
Cell counting

! **WARNING**

[AccuPlus Slide insert error]

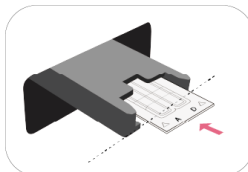
Completely insert AccuPlus Slide face up, in the direction of the arrow on the slide. The instrument will not detect if slides are inserted incorrectly.

See pictures below for proper insertion.



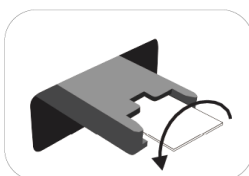
(O)

Correctly inserted



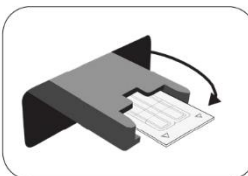
(X)

Not fully inserted



(X)

Upside down inserted



(X)

Wrong direction inserted

! **WARNING**

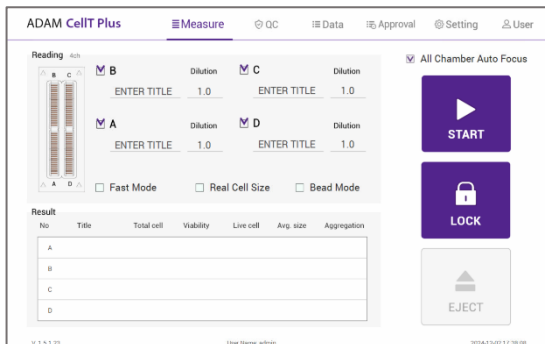
- Please insert or remove the AccuPlus Slide when the slide holder is fully ejected.
- When the test is finished, please remove the AccuPlus Slide from the slide holder.

Measure

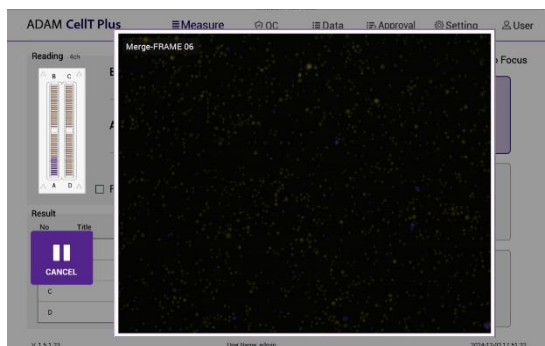
Run sample

Start counting process by pressing 'START'.

Upon the first measurement after turning on the instrument, the auto-focus function is applied automatically. If the "All Channel Auto Focus" option is selected, it may take approximately 3 minutes or longer to find the optimal focus for all chambers.



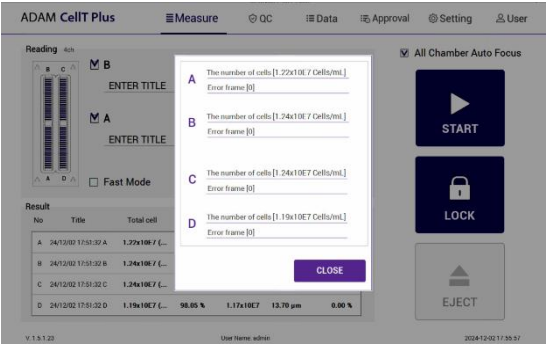
While the test is in progress, the merged channel image can be viewed in real time.



Measure

Result analysis

Based on the captured images, the ADAM™ CellT Plus software automatically calculates the results and displays them in a simple pop-up.



* Examples of Results

Title	Number of Total cell	Number of Non-Viable cell	Viability
Viability 01	1.10E6	5.50E5	50%
Viability 02	2.20E6	5.50E5	75%

- The viability will be automatically calculated by the ADAM™ CellT Plus software after each measurement of the total cells and the non-viable cells.
- First, the total cell count is measured, followed by the non-viable cell count. The cell viability is then calculated by subtracting the non-viable cell count from the total cell count.

NOTE

'Print' button will be automatically activated when portable printer (optional) is connected.

Measure

Result Analysis - Error code

ADAM Cellit Plus

Measure

QC

Data

Approval

Setting

User

Data List

2023/09/19 ~ 2023/10/19

All	No	CH	ISide	Sample	Exp. Name	Date/Time	Total	Viability	Live	Dead	Avg. si	
	0041	CH4	B	053 23/10/13 14:41	admin	2023-10-13 14:41:09	2.59e10BT (3)	70.60%	1.83e10BT	7.55e10BT	9.79µm	Start Date
	0040	CH4	C	094 23/10/13 14:41	admin	2023-10-13 14:41:09	1.39e10BT (10)	70.60%	9.17e10BT	3.81e10BT	9.79µm	2023 / 09 / 19
	0039	CH4	B	053 23/10/13 14:41	admin	2023-10-13 14:41:09	3.21e10BT	71.30%	2.29e10BT	9.21e10BT	9.80µm	End Date
	0038	CH4	A	052 day1	admin	2023-10-13 14:41:09	5.79e10BT	70.60%	3.33e10BT	6.53e10BT	9.79µm	2023 / 10 / 19
	0037	CH4	D	051 23/10/13 14:34	admin	2023-10-13 14:34:10	3.22e10BT	70.30%	2.26e10BT	9.56e10BT	9.79µm	SEARCH
	0036	CH4	C	050 23/10/13 14:34	admin	2023-10-13 14:34:10	3.22e10BT	70.60%	2.38e10BT	9.41e10BT	9.79µm	EDIT
	0035	CH4	B	049 23/10/13 14:34	admin	2023-10-13 14:34:10	3.14e10BT	70.60%	2.21e10BT	9.23e10BT	9.79µm	IMAGE
	0034	CH4	A	048 day1	admin	2023-10-13 14:34:10	3.24e10BT	71.80%	2.33e10BT	9.14e10BT	9.79µm	SAVE
	0033	CH4	D	047 23/10/13 14:27	admin	2023-10-13 14:27:41	3.15e10BT	71.60%	2.24e10BT	9.15e10BT	9.79µm	PRINT
	0032	CH4	C	046 23/10/13 14:27	admin	2023-10-13 14:27:41	3.24e10BT	71.60%	2.33e10BT	9.41e10BT	9.79µm	MAIL
	0031	CH4	B	045 23/10/13 14:27	admin	2023-10-13 14:27:41	3.13e10BT	71.60%	2.21e10BT	9.01e10BT	9.79µm	DELETE

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

496

497

498

499

500

501

502

503

504

505

506

507

508

509

510

511

512

513

514

515

516

517

518

519

520

521

522

523

524

525

526

527

528

529

530

531

532

533

534

535

536

537

538

539

540

541

542

543

544

545

546

547

548

549

550

551

552

553

554

555

556

557

558

559

560

561

562

563

564

565

566

567

568

569

570

571

572

573

574

575

576

577

578

579

580

581

582

583

584

585

586

587

588

589

590

591

592

593

594

595

596

597

598

599

600

601

602

603

604

605

606

607

608

609

610

611

612

613

614

615

616

617

618

619

620

621

622

623

624

625

626

627

628

629

630

631

632

633

634

635

636

637

638

639

640

641

642

643

644

645

646

647

648

649

650

651

652

653

654

655

656

657

658

659

660

661

662

663

664

665

666

667

668

669

670

671

672

673

674

675

676

677

678

679

680

681

682

683

684

685

686

687

688

689

690

691

692

693

694

695

696

697

698

699

700

701

702

703

704

705

706

707

708

709

710

711

712

713

714

715

716

717

718

719

720

721

722

723

724

725

726

727

728

729

730

731

732

733

734

735

736

737

738

739

740

741

742

743

744

745

746

747

748

749

750

751

752

753

754

755

756

757

758

759

760

761

762

763

764

765

766

767

768

769

770

771

772

773

774

775

776

777

778

779

780

781

782

783

784

785

786

787

788

789

790

791

792

793

794

795

796

797

798

799

800

801

802

803

804

805

806

807

808

809

810

811

812

813

814

815

816

817

818

819

820

821

822

823

824

825

826

827

828

829

830

831

832

833

834

835

836

837

838

839

840

841

842

843

844

845

846

847

848

849

850

851

852

853

854

855

856

857

858

859

860

861

862

863

864

865

866

867

868

869

870

871

872

873

874

875

876

877

878

879

880

881

882

883

884

885

886

887

888

889

890

891

892

893

894

895

896

897

898

899

900

901

902

903

904

905

906

907

908

909

910

911

912

913

914

915

916

917

918

919

920

921

922

923

924

925

926

927

928

929

930

931

932

933

934

935

936

937

938

939

940

941

942

943

944

945

946

947

948

949

950

951

952

953

954

955

956

957

958

959

960

961

962

963

964

965

966

967

968

969

970

971

972

973

974

975

976

977

978

979

980

981

982

983

984

985

986

987

988

989

990

991

992

993

994

995

996

997

998

999

1000

1001

1002

1003

1004

1005

1006

1007

1008

1009

1010

1011

1012

1013

1014

1015

1016

1017

1018

1019

1020

1021

1022

1023

1024

1025

1026

1027

1028

1029

1030

1031

1032

1033

1034

1035

1036

1037

1038

1039

1040

1041

1042

1043

1044

1045

1046

1047

1048

1049

1050

1051

1052

1053

1054

1055

1056

1057

1058

1059

1060

1061

1062

1063

1064

1065

1066

1067

1068

1069

1070

1071

1072

1073

1074

1075

1076

1077

1078

1079

1080

1081

1082

1083

1084

1085

1086

1087

1088

1089

1090

1091

1092

1093

1094

1095

1096

1097

1098

1099

1100

1101

1102

1103

1104

1105

1106

1107

1108

1109

1110

1111

1112

1113

1114

1115

1116

1117

1118

1119

1120

1121

1122

1123

1124

1125

1126

1127

1128

1129

1130

1131

1132

1133

1134

1135

1136

1137

1138

1139

1140

1141

1142

1143

1144

1145

1146

1147

1148

1149

1150

1151

1152

1153

1154

1155

1156

1157

1158

1159

1160

1161

1162

1163

1164

1165

1166

1167

1168

1169

1170

1171

1172

1173

1174

1175

1176

1177

1178

1179

1180

1181

1182

1183

1184

1185

1186

1187

1188

1189

1190

1191

1192

1193

1194

1195

1196

1197

1198

1199

1200

1201

1202

1203

1204

1205

1206

1207

1208

1209

1210

1211

1212

1213

1214

1215

1216

1217

1218

1219

1220

1221

1222

1223

1224

1225

1226

1227

1228

1229

1230

1231

1232

1233

1234

1235

1236

1237

1238

1239

1240

1241

1242

1243

1244

1245

1246

1247

1248

1249

1250

1251

1252

1253

1254

1255

1256

1257

1258

1259

1260

1261

1262

1263

1264

1265

1266

1267

1268

1269

1270

1271

1272

1273

1274

1275

1276

1277

1278

1279

1280

1281

1282

1283

1284

1285

1286

1287

1288

1289

1290

1291

1292

1293

1294

1295

1296

1297

<

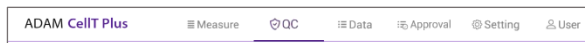
Error code	Cause
E	Frames with errors are over 50% of total counting frame.
O	Cells are more than 2×10^7 cells/mL.
H	Cells are more than 4×10^6 cells/mL.
L	Cells are less than 4×10^5 cells/mL.
U	Cells are less than 5×10^4 cells/mL.
Error frame [#]	Frame with error that contains cells whose diameter is larger than 100µm. When this error shown in result window, please check the image.

The QC Mode uses QC Slide (optional) to check equipment QC status by date at a glance.

[Activation of QC mode]

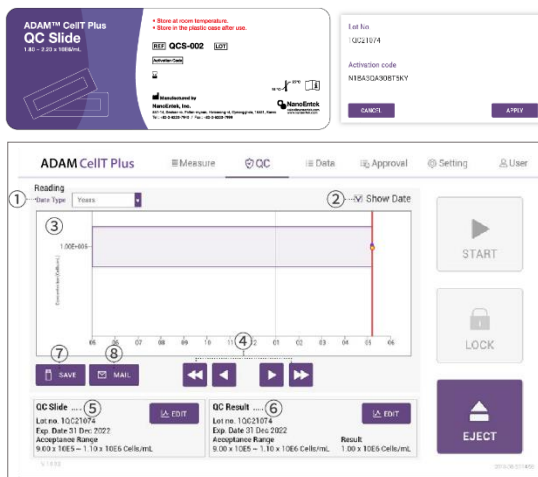
To activate 'QC' mode, an activation code must be entered.

1. Select 'QC' tab from top menu.
2. Enter lot no. and activation code. Then, click 'APPLY' button. Slide lot no. and activation code can be found on the plastic package label. See below for details.



NOTE

A unique activation code is given for each instrument, and its authenticity can be checked by registering activation code.



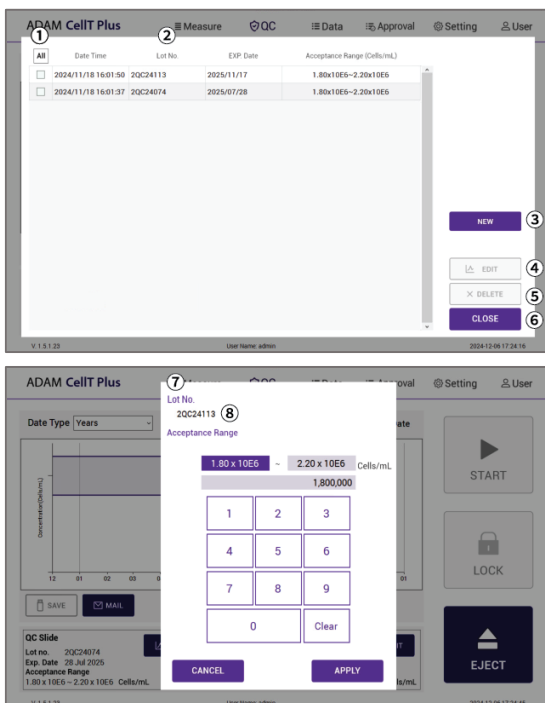
Control buttons	Description
① Data Type	QC result graph unit (Years, Months, Days, No.[Index])
② Show Data	Displays the date of QC progress on the graph
③ QC Result Graph	Graph left/right (QC date, number) movement button
④ Arrow Button	Graph left/right (QC date, number) movement button
⑤ QC Slide	QC Slide Lot. information and editing (create, edit, delete) functions
⑥ QC Result	QC result information and editing (whether or not graph is displayed, deleted) function
⑦ SAVE	Saves the QC Result Report to USB
⑧ MAIL	Sends the QC Result Report to e-mail

WARNING

QC Mode must use the QC Slide (optional), and the result without using the QC Slide is unreliable.

QC Slide Edit

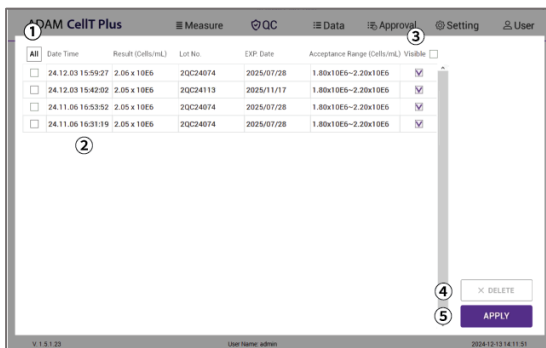
The QC Mode uses QC Slide (optional) to check equipment QC status by date at a glance.



Control buttons	Description
① All	The checkbox is used to activate the 'DELETE' button. Select all QC Slide lots to be deleted from the QC Slide lot list.
② QC Slide List	Provides registered QC Slide lot information list
③ New	Registers new QC Slide lot
④ Edit	Edits selected QC Slide lot
⑤ Delete	Deletes selected QC Slide lot
⑥ Apply/Close	Applies function or closes selected QC Slide lot
⑦ Lot No. (New/Edit)	QC Slide Lot No. input field to create new or edit lot number
⑧ Acceptance Range (New/Edit)	QC Slide acceptance range input field to enter new or edit range values

- NOTE**
- The QC Slide lot and Acceptance Range can be found at the top of the QC Slide.
 - Expired QC Slide cannot be selected.

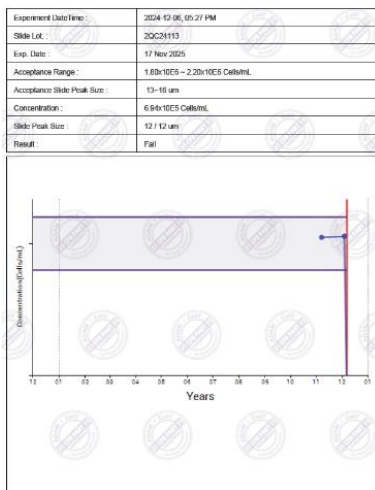
QC Slide Result Edit



Control buttons	Description
① All	The checkbox is used to activate the 'DELETE' button. Select all QC Slide lots to be deleted from the QC Slide lot list.
② QC Slide List	QC result information list
③ Visible	Selects all QC result to display graph from the QC result List.
④ Delete	Deletes selected QC result
⑤ Apply/Close	Applies visible function or closes QC result

QC Slide Result

QC result acceptance criteria:



•The QC Slide result acceptance criteria include the acceptance range (different for each QC Slide lot) and the acceptance slide peak size (13 ~ 16 μ m)

! NOTE

- The acceptance range of the selected QC slide lot is displayed on the graph as a purple area.
- Acceptance slide peak size results can be found in the ADAM™ CellIT Plus Test report.

! WARNING

Contact sales@nanoentek.com or your local distributor if the QC result does not come within the acceptance criteria.

Data

Data list

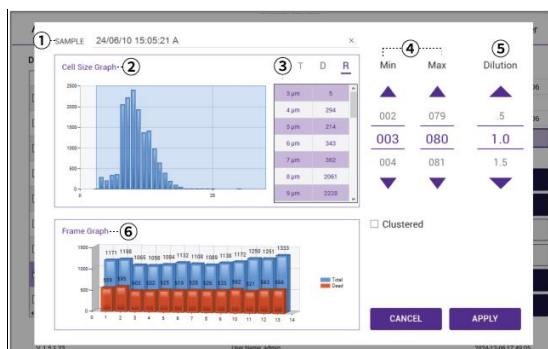
All	No	CH	Slide	Sample	Exp. Name	Date/Time	Total	Viability	Live	Dead	Avg. wt.
☒	0001	004	D	004-20170113 14.41	address	2020-10-10 14:40:09	3.29k1000	70.80%	2.29k1000	9.88k1000	9.79µg
☐	0010	004	B	004-20170113 14.41	address	2020-10-10 14:40:09	3.29k1000	71.30%	2.29k1000	9.88k1000	9.79µg
☐	0011	004	B	004-20170113 14.41	address	2020-10-10 14:40:09	3.29k1000	71.30%	2.29k1000	9.88k1000	9.79µg
☐	0012	004	A	004-0001	address	2020-10-10 14:40:09	3.29k1000	70.80%	2.29k1000	9.88k1000	9.79µg
☐	0014	004	D	001-20170113 14.34	address	2020-10-10 14:34:10	3.22k1000	70.30%	2.25k1000	9.56k1000	9.79µg
☐	0016	004	D	002-20170113 14.34	address	2020-10-10 14:34:10	3.22k1000	70.30%	2.25k1000	9.56k1000	9.79µg
☐	0018	004	B	049-20170113 14.34	address	2020-10-10 14:34:10	3.18k1000	70.30%	2.21k1000	9.23k1000	9.77µg
☐	0019	004	B	049-20170113 14.34	address	2020-10-10 14:34:10	3.18k1000	71.80%	2.23k1000	9.14k1000	9.79µg
☐	0021	004	A	040-0001	address	2020-10-10 14:37:40	3.15k1000	71.80%	2.26k1000	9.15k1000	9.79µg
☐	0022	004	D	047-20170113 14.27	address	2020-10-10 14:27:40	3.29k1000	71.80%	2.29k1000	9.41k1000	9.79µg
☐	0023	004	B	046-20170113 14.27	address	2020-10-10 14:27:40	3.10k1000	71.30%	2.21k1000	8.81k1000	9.79µg

Control buttons	Description
① All	Select all data in Data List.
② SEARCH	Display the data of the selected date.
③ EDIT	View and edit the data. Multiple data can be edited with the same settings.
④ IMAGE	Check the cell images of each channel.
⑤ SAVE	Save the selected data to USB (PDF, Excel, Image).
⑥ PRINT (optional)	Prints the selected data.
⑦ MAIL	Send the Excel, PDF, and Image files of selected data to e-mail. Delete the selected data.
⑧ DELETE	Delete the selected data.

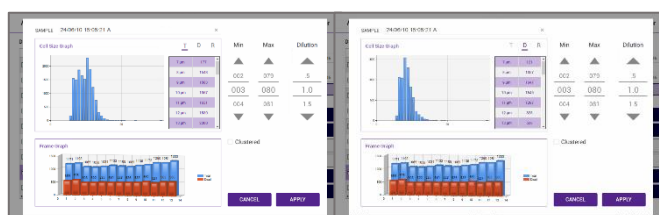
NOTE
 'PRINT' button will be automatically activated when portable printer (optional) is connected.

Data

EDIT



Control buttons	Description
① Sample	Edit the sample name.
② Cell size graph	Allows to view the cell size graph for each channel.
③ Cell size table	Allows to view the number of cells in each cell size. T=Total cell (AO), D=Dead cell (DAPI), R=Real cell size(Bright)
④ Cell size setting	Set the min/max size of the cell.
⑤ Dilution Factor	Set the dilution factor of sample. (Factor values for the Cell viability reagent is already applied.)
⑥ Frame graph	Allows to view the counted cell number of each frame.

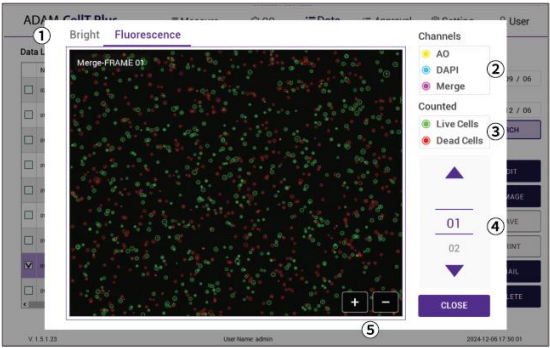


NOTE

After measurement, size range adjustment is available only in the R channel when Bead mode or Real size mode is selected. If neither mode is selected, adjustment is only available in the T (AO) channel. Cells excluded by the size range adjustment are highlighted with yellow squares in the image.

Data

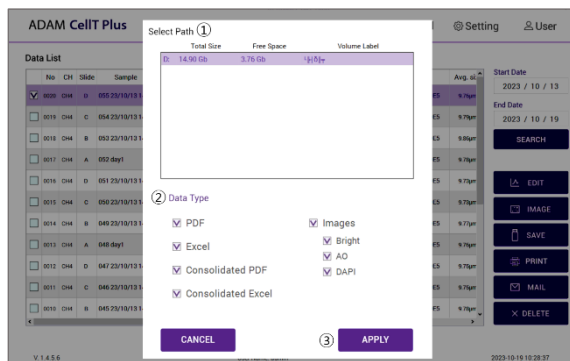
IMAGE



Control buttons	Description
① Channel	Select images measured in bright field and fluorescence channel.
② Original	Turn on/off AO, DAPI, and Merge to check channel image.
③ Counted	Turn on/off Live, Dead cells to check counted cell image.
④ Frame	Select a frame number of the channel.
⑤ Zoom-in/out	Zoom in and out to check the cell image.

Data

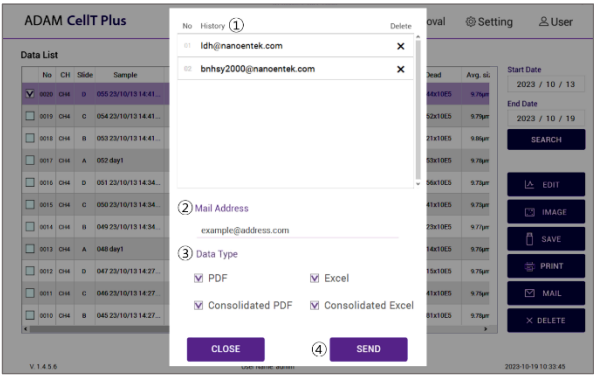
SAVE



Control buttons	Description
① Select Path	Selects a save path from the list to send the selected data.
② Data Type	Selects which data type to save.
③ Apply	Exports the files to a selected save path Files can be sent to only one save path at a time.

Data

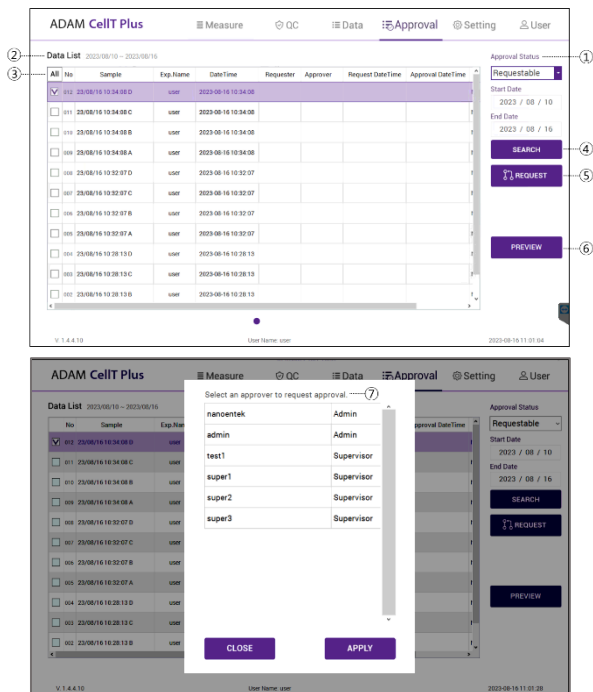
MAIL



Control buttons	Description
① History	Selects e-mail address from the list to send data The e-mail address where data has been sent will be saved.
② Mail Address	To send files to new e-mail, enter the applicable e mail address.
③ Data Type	Selects which data type to send via e-mail
④ Send	Send the files to a selected e-mail address. Files can be sent to only one e-mail at a time.

Approval

Requestable



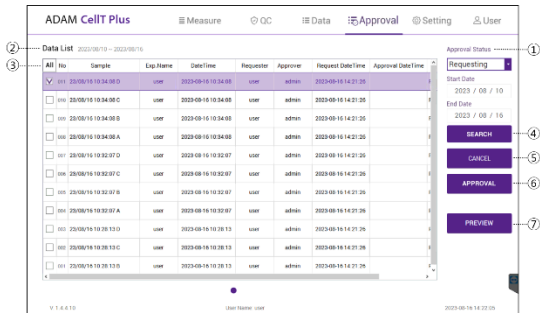
Control buttons	Description
① Approval Status	Settings tab related to data approval such as Requestable, Requesting, Approvable, and Approved.
② Data List	List of data that can check status information related to approval.
③ All	Select all data in Data List
④ Search	Display the data of the selected date.
⑤ Request	Request approval of selected data.
⑥ Preview	Select Preview to check the results before approval or requesting approval. (Providing preview in a PDF format)
⑦ Select approval	Select an approval to request approval.

NOTE

- Approval can only be done by an approver who has been granted Approval authority in the Privilege setting.
- Approved data displays approval status on Data Tab. (Approval: O / Approval in progress: Δ / Not approved X).
- Data in the process of approval cannot be edited or deleted.
- Approved data cannot be edited.

Approval

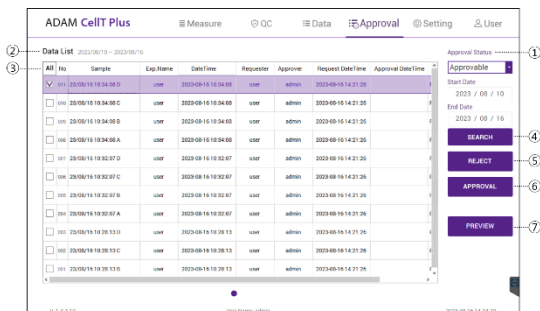
Requesting



Control buttons	Description
① Approval Status	Settings tab related to data approval such as Requestable, Requesting, Approvable, and Approved.
② Data List	List of data that can check status information related to approval.
③ All	Select all data in Data List
④ Search	Display the data of the selected date.
⑤ Cancel	Cancel approval of selected data in the process of approval.
⑥ Approval	Direct approval by only entering the approver's password without approver login.
⑦ Preview	Select Preview to check the results before approval or requesting approval. (Providing preview in a PDF format)

Approval

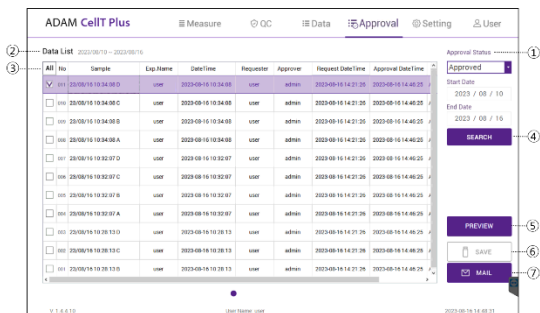
Approvable



Control buttons	Description
① Approval Status	Settings tab related to data approval such as Requestable, Requesting, Approvable, and Approved.
② Data List	List of data that can check status information related to approval.
③ All	Select all data in Data List
④ Search	Display the data of the selected date.
⑤ Reject	Reject approval of selected data in the process of approval.
⑥ Approval	Approval of the data selected during the approval process.
⑦ Preview	Select Preview to check the approvable approval results. (Providing preview in a PDF format.)

Approval

Approved



Control buttons	Description
① Approval Status	Settings tab related to data approval such as Requestable, Requesting, Approvable, and Approved.
② Data List	List of data that can check status information related to approval.
③ All	Select all data in Data List
④ Search	Display the data of the selected date.
⑤ Preview	Select Preview to check approved results. (Providing preview in a PDF format)
⑥ SAVE	Save the selected approved data to USB.
⑦ MAIL	Send the selected approved data to e-mail.

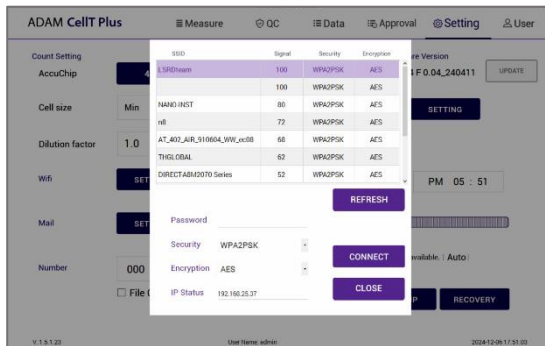
Approval

Setting

Control buttons	Description
① AccuChip	Select AccuPlus slide type (2ch, 4ch) to use.
② Cell size	Set default values of cell size.
③ Dilution factor	Set default values of dilution factor.
④ Wifi	Sets the Wi-Fi to use the e-mail or remote support function.
⑤ Remote	Connects to remote support software.
⑥ Mail	For the sender's email address, DO NOT change the setting in mail.
⑦ Number	Using the data list counter function, select auto-numbering in the title.
⑧ Update	Updates firmware or software through USB. (Refer to page 37)
⑨ Auto Logout	Sets auto logout time. (Refer to page 37)
⑩ Date & Time	Sets current date and time.
⑪ Capacity	Checks remaining capacity.
⑫ Data Backup	Allows to view the storage path of additional data backup.
⑬ Backup	Sets backup (automatic, manual) function. (Refer to page 37)
⑭ Recovery	Runs recovery (automatic, manual) function. (Refer to page 38)
⑮ Auto Backup Informations	Allows to view the working automatic backup information. (Sync=O, SDMS=, Sync+SDMS=)

Setting

Wifi



1. Click the 'Refresh' button.
2. Select the wifi.
3. Insert the password of selected wifi.
4. Click the 'Connect' button.

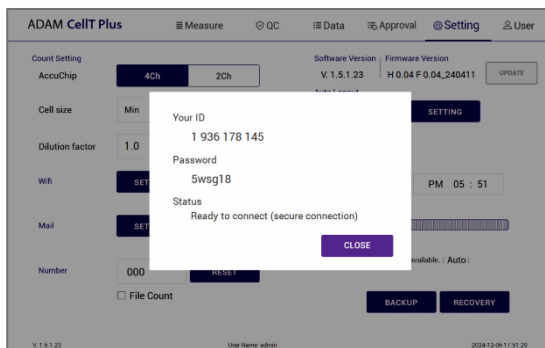
! CAUTION

If connection error occurs, please contact a laboratory facility manager.

! NOTE

In PC Mode, please use internet (Windows).

Remote support



1. Connect to wifi.
2. Click 'Remote support' button.
3. Share your ID and password to NanoEntek.

! NOTE

The remote support feature is to be used for maintenance only by request of NanoEntek.

! WARNING

If you do not see your Remote Support ID and Password, click the 'Close' and 'Remote Support' button again until they appear.

Setting

Update

1. Prepare the USB with update file.
2. Insert the USB.
3. Click the UPDATE button.

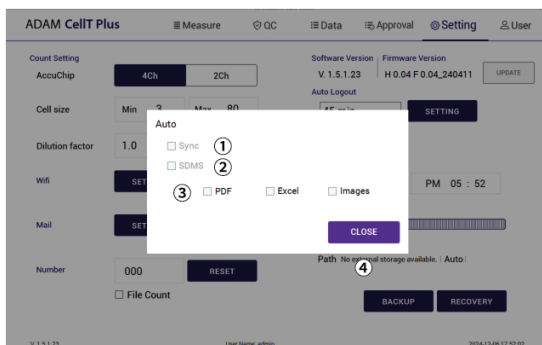
! CAUTION

- The 'AdamUpdate' folder must exist in the root path of the USB folder.
- ADAM™ CellIT Plus can be updated only when the firmware or software file exists in the 'AdamUpdate' folder. The 'ADAM™ CellIT Plus.exe' file should be in the 'AdamUpdate' folder.
- Do not rename the 'AdamUpdate' folder. The folder name should be 'AdamUpdate'.

Auto logout

The auto logout time when not in use can be set to 5, 15, 30, 45, or 60 minutes.

Backup



Control buttons	Description
① Auto-Sync	Real-time automatic backup of counted data required for automatic recovery
② Auto-SDMS	Real-time automatic backup of counted data required for SDMS (Scientific Data Management System) interworking
③ Manual	To manually back up the counted data required for manual recovery
④ Close	Applies function to the selected lists.

! NOTE

Auto-SDMS backup is available only for approved data.

! CAUTION

Please be cautious as data may be lost when Auto Backup (Sync) is turned off.

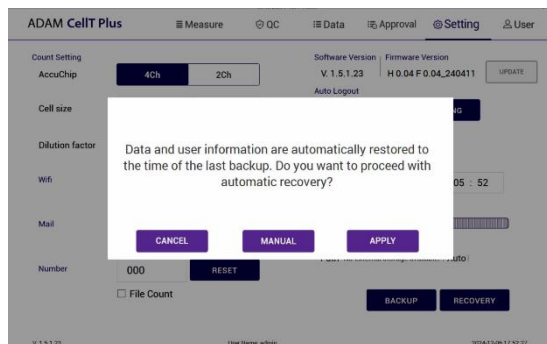
! WARNING

- DO NOT remove an external hard drive for backup at any time as it may cause data loss.
- If you change backup data path, auto backup function becomes inactive. DO NOT change data path as it may cause backed up data loss.

We are NOT responsible for such error or problem mentioned above.

Setting

Recovery



- Restore counted data to the point of the last automatic backup (Sync).
- Manual recovery restores manually backup counted data.

NOTE

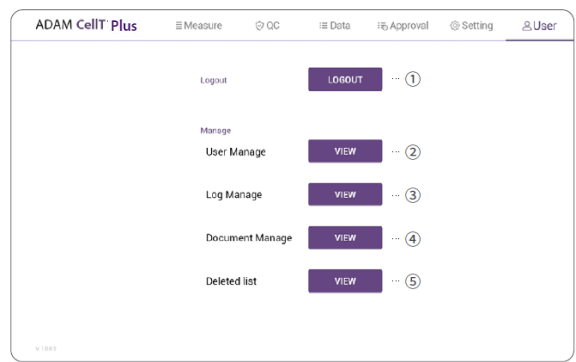
The automatic backup function is turned off after recovery, please re-enable the automatic backup function.

CAUTION

Please be careful with manual recovery, because counted data that is not manually backed up will be lost.

User

User



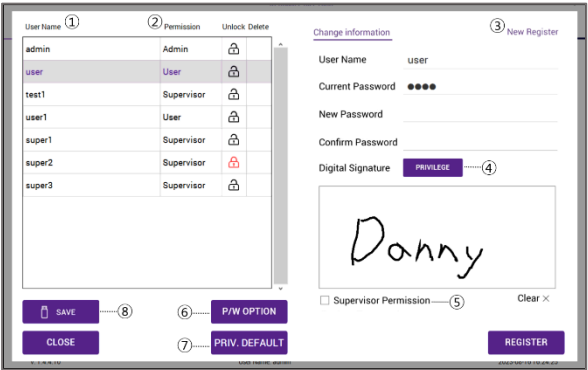
Control buttons	Description
① Logout	To logout
② User manage	To register a user and modify account settings
③ Log manage	Tracks user access records
④ Document manage	Tracks management document records
⑤ Deleted list	Tracks deleted data records

ADAM™ CellIT Plus provides a comprehensive solution to comply with the requirements of the 21 CFR Part 11 rule.

Please see the appendix for more information on these features.

User

User manage

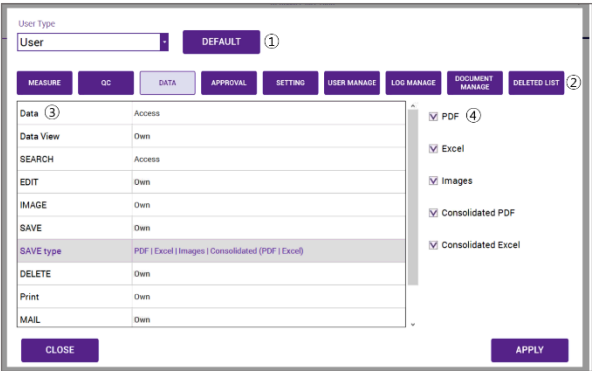


Control buttons	Description
① User Name	To view the registered user list.
② Permission	To view the user access authority
③ New Registration	To register new user
④ Privilege	Option for permission setting
⑤ Supervisor Permission	To register as a supervisor
⑥ Password Option	To set password
⑦ Privilege Default	Option for default permission setting (supervisor, User)
⑧ Save	Download the permissions of users in the user list as an Excel file.

User

Privilege

The Admin can grant or release access to functions when creating or editing new users (Supervisor, User).

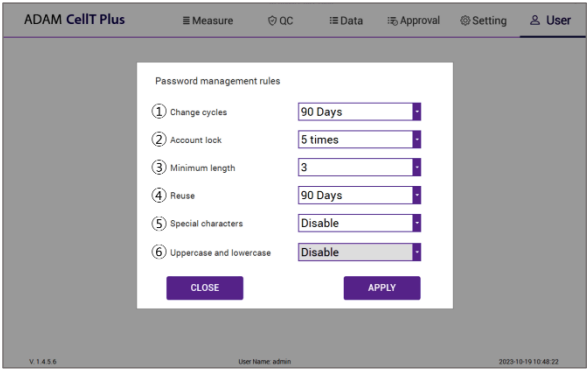


Control buttons	Description
① User Type & Default	Selects account level and sets default permissions
② Tab	Tab for permission Settings
③ Function list	Detailed functions for each permission setting tab
④ Detailed function	List of possible permission settings for each function

! NOTE

Granting basic access rights for each user (For the default access rights for each user, refer to the ADAM™ CellIT Plus SW 21 CFR PART11 requirement support appendix).

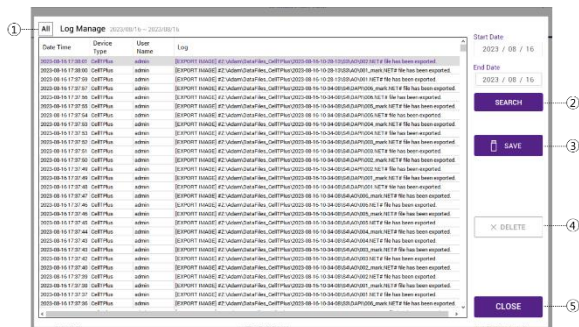
Password Option



Control buttons	Description
① Change cycles	Set password change interval (30, 90, 180 days).
② Account lock	Number of incorrect passwords in account lockout (≤ 3, 5, 10, 15).
③ Minimum length	Minimum length of password (≤3, 5, 10, 15).
④ Reuse	Prohibition of using the same password for a certain period of time (≤30, 90, 180, >180 days).
⑤ Special characters	Use at least one special character.
⑥ Uppercase and lowercase	Use at least one uppercase letter.

User

Log manage



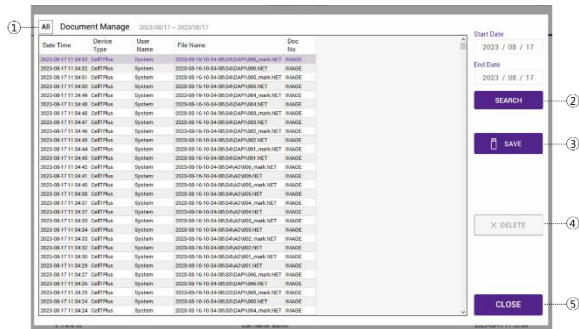
Control buttons	Description
① ALL	Select all data in Data List.
② SEARCH	Display the data of the selected date.
③ SAVE	Save the selected data to USB.
④ DELETE	Delete the selected data.
⑤ CLOSE	Close the log manage.

NOTE

The search period is limited to 90 days (Except PC Mode).

User

Document manage

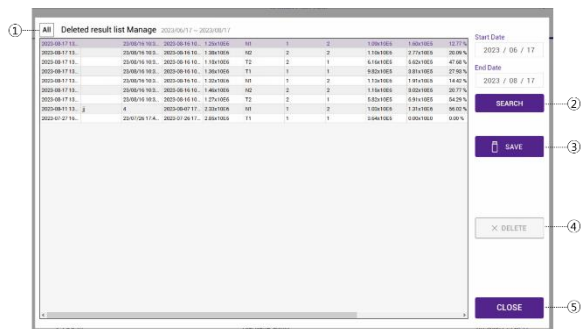


Control buttons	Description
① ALL	Select all data in Data List.
② SEARCH	Display the data of the selected date.
③ SAVE	Save the selected data to USB.
④ DELETE	Delete the selected data.
⑤ CLOSE	Close the document manage.

NOTE
The search period is limited to 90 days (Except PC Mode).

User

Deleted list



Control buttons	Description
① All	Select all data in Data List.
② SEARCH	Display the data of the selected date.
③ SAVE	Save the selected data to USB.
④ DELETE	Delete the selected data.
⑤ CLOSE	Close the deleted list.

! NOTE

The search period is limited to 90 days (Except PC Mode).

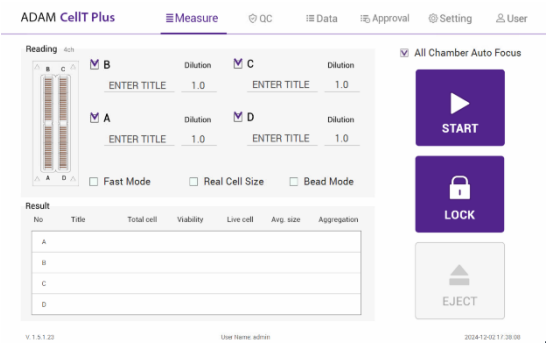
Power off

Lock

Press  LOCK before turning off the device.

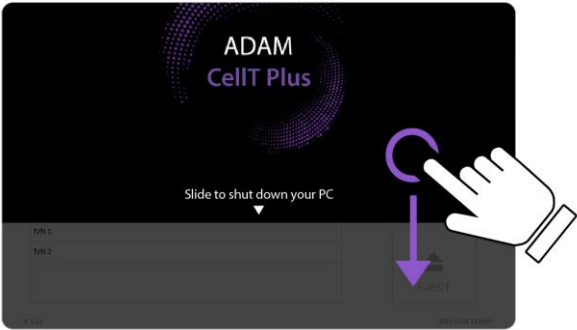
If there is no operation for 1 minute, the lock function will be activated automatically.

When the device is locked, the screen will be changed as shown below.



Power off

If you press the power button 2~3 seconds, then 'Slide to shut down your PC' message will appear. Slide down the screen to turn off the power.



NOTE
In PC mode, press the 'X button (quit)' to turn off the power.

Maintenance and cleaning

Maintenance and cleaning

1. ADAM™ CellIT Plus does not need regular maintenance.
2. ADAM™ CellIT Plus has no replacement of consumable materials.
3. Please clean the exposed surface of ADAM™ CellIT Plus frequently or before testing, using a soft cloth and isopropyl alcohol or deionized water.

 CAUTION

Dispose of wipes in an appropriately labeled solvent contaminated waste container.

Trouble shooting

Trouble shooting

Problem	Description	Solution
ADAM™ CellIT Plus does not power up	- No power from outlet - Bad power cord.	- Check power source. - Replace.
Inaccurate result	- Cell number may be out of range. - Cell viability reagent has expired. - Too high clumped cells.	- Adjust the number of cells to recommended concentration (refer to page 50). - Discard Cell viability reagent that have expired. Purchase the Cell viability reagent (refer to page 50). - Try again after vortexing the cells.
When error message is shown (For information on each error message, see page 20)	When frames with errors are over 50% of total counting frame. (Error message: E)	- Check the suspension of cells if all cells are fully dissociated into single cells. - If contaminants except cells are found, prepare sample again.
	- High concentration of cells (Error message: H) - Over detection range (Error message: O)	- Check if concentration of cell is too high. - Dilute the sample and count again.
	- Low concentration of cells (Error message: L) - Under detection range (Error message: U)	- Check if concentration of cell is too low. - Use concentrated sample and count again.

Warranty

Warranty

If any defects occur in the ADAM™ CellIT Plus during one (1) year warranty period, NanoEntek will repair or replace the defective parts at its discretion without charge. The following defects, however, are specifically excluded:

1. Defects caused by improper operation.
2. Repair or modification done by anyone other than NanoEntek or an authorized agent.
3. Damage caused by substituting alternative parts.
4. Use of fittings or spare parts supplied by anyone other than NanoEntek.
5. Damage caused by accident or misuse.
6. Damage caused by disaster.
7. Corrosion caused by improper solvent or sample.

For your protection, items being returned must be insured against possible damage or loss. NanoEntek cannot be responsible for damage incurred during shipment of a repair instrument. It is recommend that you save the original packing material in which the instrument was shipped. This warranty should be limited to the replacement of defective products.

For any inquiry or request for repair service,
Contact sales@nanoentek.com or your local distributor.

For extended warranty purchase, contact sales@nanoentek.com.

Technical specifications

Technical Specifications



ADAM™ CellIT Plus	
Measuring range	$5 \times 10^4 \sim 2 \times 10^7$ cells/mL
Optimal range	$4 \times 10^5 \sim 4 \times 10^6$ cells/mL
Analysis time*	Please refer to following table.
Voltage	DC12V
Current	5A
Objective lens	4 X
LED	Green, Blue, UV
Camera	CMOS camera
Filter	Excitation filter, Dichroic filter, Emission filter
Weight	7 kg
Size (W×L×H)	277 × 276 × 270 mm
Degree of protection	IPX0

► Analysis time*

Mode (channel)	All Chamber Auto Focus (on)	All Chamber Auto Focus (off)	Captured Frames
Bead mode (BF/AO/DAPI)	8 min/slide		13 frames
Accuracy mode (AO/DAPI, Default)	3 min 30 sec/slide	1 min 30 sec/slide	13 frames
Real + Accuracy (BF/AO/DAPI)	6 min 30 sec/slide	5 min/slide	13 frames
Fast mode (AO/DAPI)	3min/slide	1 min/slide	6 frames

Operating environment condition

Temperature	$5\text{ }^{\circ}\text{C} \leq \text{Temperature} \leq 40\text{ }^{\circ}\text{C}$
Humidity	$20\% \leq \text{Humidity} \leq 80\%$
Altitude	Altitude $\leq 2,000$ m



AccuPlus Slide	
Loading sample vol.	15 μL /test
Measuring sample vol.	3.2 μL /test

Solutions

Cell viability Reagent	20 mL / bottle
------------------------	----------------

Storage temperature

AccuPlus Slide	$0 \sim 30\text{ }^{\circ}\text{C}$
Cell viability reagent	$2 \sim 8\text{ }^{\circ}\text{C}$

Expiration date

AccuPlus Slide	2 years
Cell viability reagent	1 year 2 months after opening

Product list

Product list

Cat. No.	Description	Contents
ADAM CellIT Plus	Fluorescence cell counter	• Main device • User manual
APAD-400	Cell viability reagent	• 20 ml x 1 bottle (400 Tests): Acridine orange (AO) & 4',6-diamidino-2-phenylindole (DAPI) stain
AP4S-100	AccuPlus Slide 4ch.	• 4ch. Slide 100ea

► Accessories

Cat. No.	Description	Q'ty
QCS-002	QC slide (Optional)	1

Safety precautions

Review and follow the safety instructions below:

- If water or other material enters the instrument, the adaptor, or power inlet, disconnect the power cord and contact a service person. For operating environment, refer to Product Specifications.
- Do not touch the main plug or power cord with wet hands.
- Always ensure that the power supply input voltage matches the voltage available at your location.
- This instrument is air-cooled and its surfaces may become hot during operation. When installing, leave a space of more than 10 cm (4 inches) around the instrument and do not place any objects between the instrument and walls.
- Do not install an instrument on a slant or a place prone to vibrations, which induces the risk of malfunction or damage of the instrument.
- Never insert any objects into the air vents of the instrument as this can result in electric shock, personal injury, and equipment damage.
- Plug the power cord firmly into the wall outlet and AC adapter.
- To avoid potential shock hazard, make sure that the power cord is properly grounded.
- Be sure to position the instrument such that it is easy to disconnect.
- Turn off an instrument before unplugging the power cord and/or moving the instrument.
- If an instrument is dropped or broken, disconnect the power cord and contact a service person. The warrant will be void in case of disassembly.
- Use only authorized accessories (adaptor, power cord, and USB drive).



WARNING

Class A equipment is intended for use in an industrial environment. In the documentation for the user, a statement shall be included drawing attention to the fact that there may be potential difficulties in ensuring electromagnetic compatibility in other environments, due to conducted as well as radiated disturbances.

Mesures de sécurité

Examiner et suivre les instructions en matière de sécurité ci-dessous:

- Si de l'eau ou d'autres matières entrent dans l'instrument, l'adaptateur, ou l'entrée de la prise, débrancher le cordon d'alimentation et contacter un technicien de service. Pour l'environnement d'exploitation, se reporter aux Spécifications du Produit.
- Ne pas toucher la prise principale ou le cordon d'alimentation avec les mains mouillées.
- S'assurer toujours que la tension d'alimentation correspond à la tension disponible à votre localisation.
- Cet instrument est refroidi à l'air et ses surfaces peuvent devenir chaudes pendant le fonctionnement. Lors de l'installation, laisser un espace de plus de 10 cm (4 pouces) autour de l'instrument et ne placer aucun objet entre l'instrument et les murs.
- Ne pas installer d'instrument sur une pente ou un endroit sujet aux vibrations, qui entraînent un risque de défaillance ou de détérioration de l'instrument.
- Ne jamais insérer d'objets dans les événements d'air de l'instrument, car cela peut causer des chocs électriques, des blessures corporelles et des dommages de l'instrument.
- Mettre le cordon d'alimentation fermement dans la prise murale et l'adaptateur courant alternatif.
- Pour éviter tout risque de choc, s'assurer que le cordon d'alimentation est correctement mis à la terre.
- S'assurer de positionner l'instrument de telle sorte qu'il soit facile à débrancher.
- Éteindre l'instrument avant de débrancher le cordon d'alimentation et/ou de le déplacer.
- En cas de chute ou de rupture d'un instrument, débrancher le cordon d'alimentation et contacter un technicien de service. La garantie sera annulée en cas de démontage.
- Utiliser uniquement les accessoires autorisés (adaptateur, cordon d'alimentation et clé USB).



AVERTISSEMENT

L'équipement de classe A est destiné à être utilisé dans un environnement industriel. Dans la documentation pour l'utilisateur, une déclaration doit être incluse pour attirer l'attention sur le fait qu'il peut y avoir des difficultés à assurer la compatibilité électromagnétique dans d'autres environnements, en raison de perturbations aussi bien conduites que radiées.

Safety symbols

Safety symbols

The following symbols are found on the instrument and this document. Always use the equipment in the safest possible manner.

Symbol	Meaning
	Caution & Warning
	Protective earth (Ground)
	Power On/Off
	The moving parts symbol indicates areas of the medical device in which moving parts can cause injuries. Do not operate the medical device with the door open.
	This instrument has been tested and found to comply with the limits for a Class A digital medical device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the instrument is operated in a commercial environment. This instrument generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this instrument in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
	This instrument and consumables conforms to the EC Declaration of Conformity.
	USB Connection
	This product conforms to UL 61010-1, CAN/CSA C22.2 No. 61010-1 "Safety Requirements for Electrical Instrument for Measurement, Control, and Laboratory Use, Part I: General Requirements." This instrument bearing the TÜV symbol are certified by TÜV Product Services to be in conformance with the applicable safety standard for the US and Canada.
	Catalogue number/Reference number
	Serial number
	Manufacturer
	European Corporation
	Electrical input
	US Corporation
 www.nanontek.com/eifu.php	Consult Instructions for Use An electronic instructions for use (eLFU) indicator (website address) may accompany the symbol when used to indicate an instruction to consult an eLFU.

	Disposal of your old appliance 1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2012/19/EU. 2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities. 3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health. 4. For more detailed information about disposal of your old appliance, please contact local distributor, waste disposal service or call the number listed in the manual.
	LED
	Physician. Keep dry Keep away from rain
	Fragile, handle with care
	This way up
	General symbol for recover/recyclable
	Team lift
US Corporation	US Corporation
EC REP	Authorized representative in the European community
UK Representative	Authorized representative in United Kingdom
CH REP	Authorized representative in Switzerland
BRH	Authorized representative in Brazil

Warnings

Warning

- 1. After using device, please turn off main power.**
If not, it may cause malfunction or may reduce product life.
- 2. When turning off the device, be sure to lock the device with Lock button.**
If not, it may cause mechanical problem or error message when device is booting.

Item	Warning
Battery inside device	• Risk of explosion if battery is replaced incorrectly. • This battery is not replaceable by user. Refer to an authorized service person.
Cover	• Do not remove cover or disassemble case. There are no adjustable components inside the instrument. • If a malfunction is found, refer to an authorized service person.
Manual	• Do not attempt to service the equipment. • This manual is only available in English. • Failure to heed warnings may result in injury to service provider or operator.
Sample handling	• Wear personal protective equipment during sampling and testing. • Sample may contain infectious or bio-hazardous agents. • Use capped tubes and lint free wipes. Lint free wipes to be used one time and discarded.
Waste	• After using AccuPlus Slide, appropriately dispose as bio-hazardous waste. • Do not reuse AccuPlus Slide.

Technical support

Visit our Website at www.nanoentek.com for:



- Technical resources, including manuals, FAQs, etc.
- Technical support contact information
- Additional product information and special offers

For more information or technical assistance, please call or email.

NanoEntek, Inc.

851-14, Seohae-ro, Paltan-myeon, Hwaseong-si,
Gyeonggi-do, 18531, Korea
Tel: +82-2-6220-7940
Fax: +82-2-6220-7999

NanoEntek America, Inc.

220 Bear Hill Road, Suite 102, Waltham, MA 02451, USA
Tel: +1-781-472-2558
Fax: +1-781-790-5649

Email

sales@nanoentek.com

Website

www.nanoentek.com

ADAM™ CellT Plus

NESMU-ACTP-001E (V.1.0)



NanoEntek, Inc.

851-14, Seohae-ro, Paltan-myeon, Hwaseong-si
Gyeonggi-do, 18531, Korea
Tel: +82-2-6220-7940
Fax: +82-2-6220-7999

US Corporation

NanoEntek America, Inc.

220 Bear Hill Road, Suite 102, Waltham, MA 02451, USA
Tel: +1-781-472-2558
Fax: +1-781-790-5649

European Corporation

NanoEntek Europe | med-tech supplies GmbH

Lochhamerstr. 4a, 82152 Martinsried, Germany
Tel: +49-89-21-55-38-43 / Fax: +49-89-99-95-46-60

E-mail

sales@nanoentek.com

Website

www.nanoentek.com