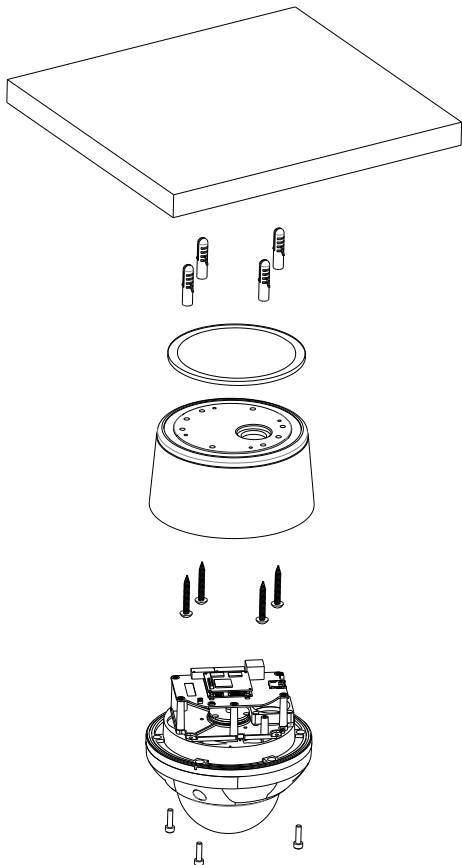# Quick Installation Guide

This manual has been designed to guide you through basic settings of your IP devices, such as installation and configuration for using them.

Step1. Assemble and install IP device

1) Connect the LAN cable and power supply cable with the camera. For the detailed information, please refer to the Step 2.

2) Place the installation template (which is included in the package) on the ceiling.

3) Drill four holes on the template and insert anchor blocks into the holes. Fasten the surface mount bracket with screws.

4) Put the main body on the surface mount bracket of the camera. Make sure the bracket and the main body fit each other into place.
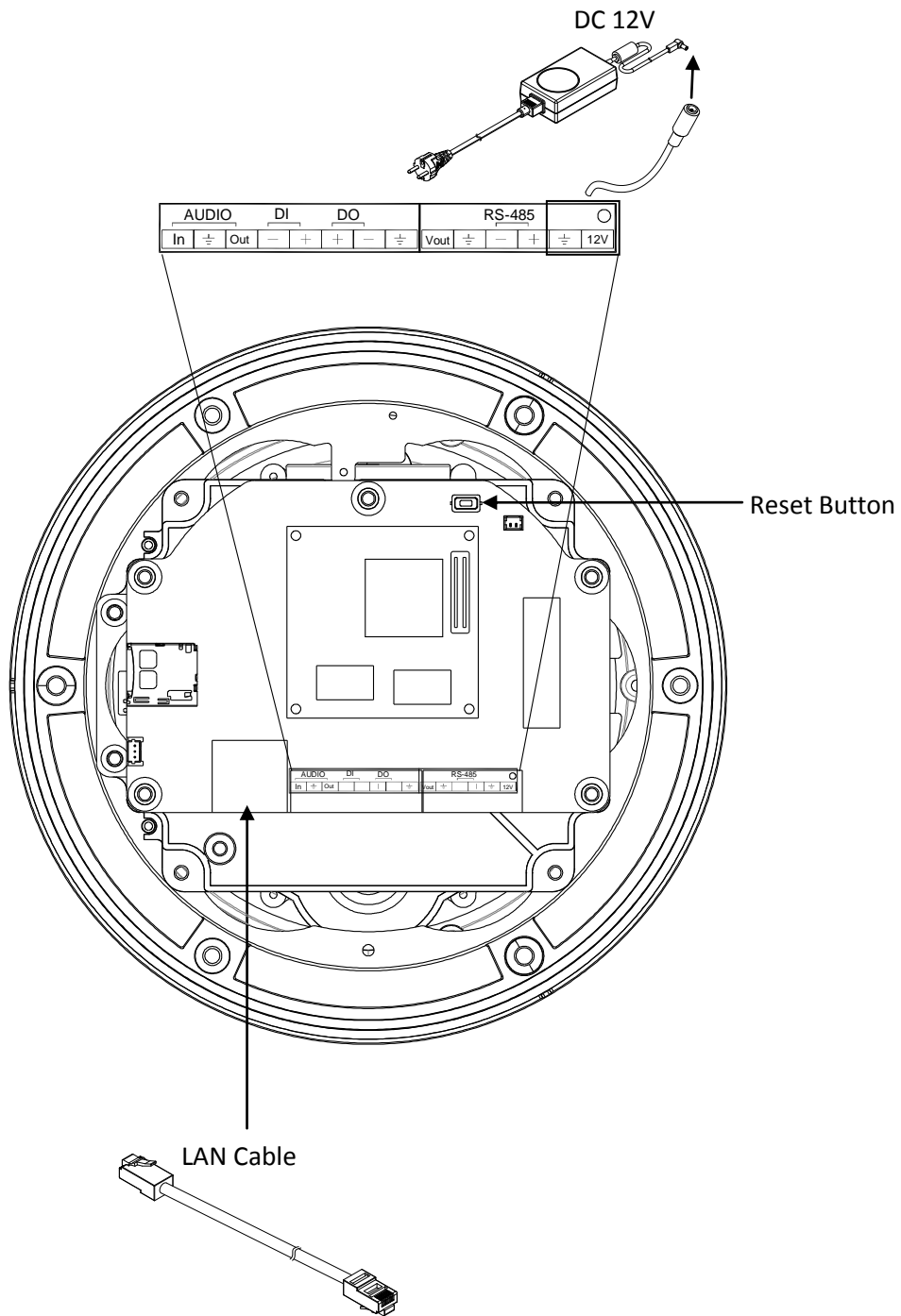
5) Fasten the main body with screws.

⚠ Caution

When assembling the main body of the camera and its dome cover, make sure they fit each other into place.

The camera may fall off the ceiling even after the proper installation and mounting. To prevent any accident, make sure the ceiling is firm and stable enough to support the camera. If any reinforcement is needed, consult with your safety personnel and proceed with the installation.

Step2. Connect cables to IP device

Connect each cable to the device. To see the correct positions of all connectors, refer to the following image below.

DC 12V

AUDIO			DI		DO			RS-485				○	
In	⏚	Out	−	+	+	−	⏚	Vout	⏚	−	+	⏚	12V

Reset Button

LAN Cable

* Models herein and their appearance are subject to change without any prior notice.

⚠ **!** **Caution**	Make sure the polarity is correct. Incorrect connection may cause malfunction or damage to the IP device.	Power Adaptor Connector (DC 12V) ⊖—●—⊕

Step3. Set up network environment

The default IP address of your IP device is 192.168.XXX.XXX. You can find the available IP address from the MAC address of your device. Please make sure the device and your PC are on the same network segment before running the installation. If the network segment was different between your PC and the device, change your PC's settings as below.

IP address   : **192.168.xxx.xxx**
Subnet mask: **255.255.0.0**
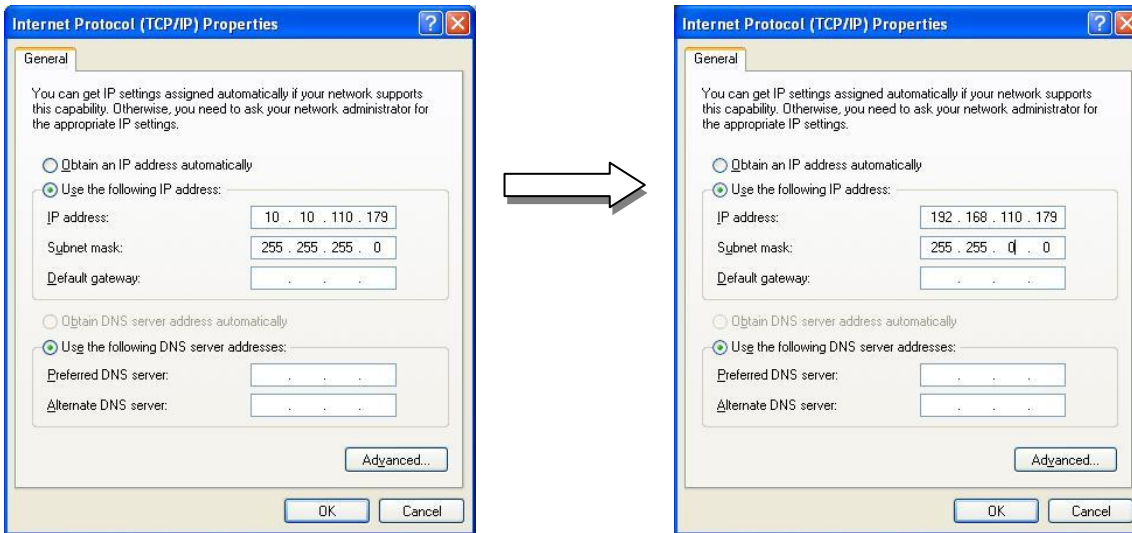
Step 4. View video on web page

View the live video on a web page using your IP device and its IP address. To have the correct IP address ready and use it on a web page:
1. Convert a MAC address to an IP address. Refer to the Hexadecimal-Decimal Conversion Chart at the end of this manual.
    (The MAC address is attached on the side or bottom of the device.)

MAC address = 00-13-23-01-14-B1 → IP address = 192.168.20.177

the Hexadecimal number to Decimal number.
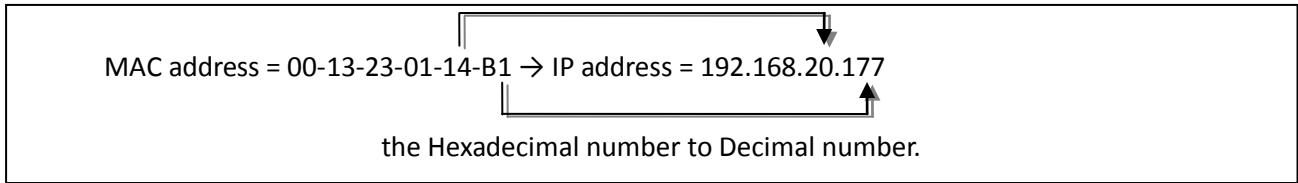
2. Open a web browser and enter the IP address of the device.

3. Click **pop-up blocked** and install the ActiveX setup.exe by clicking the **Run** or **Save** button. You need to install the ActiveX for displaying the images.

4. Follow the instructions of the dialog boxes and complete the installation. Then the live video is displayed on the main page of the web browser.

5. If the live video is not displayed with the message said, *"This software requires the Microsoft XML Parser V6 or higher. Please download MSXML6 from the Microsoft website to continue. Error code: Can not create XMLDOMDocument."*, please download and install the relevant MSXML.

    * The explanation and captured images on this manual are mainly on the basis of Internet Explorer 7.0.

Step5. Setting IP Address

To set up the Network configuration:

1. Click **Setup** on the upper right of the web page. The login page is displayed as below.
2. Enter the default user name (root) and the default password (pass), and then select **OK**.

The default username and password are: **root** and **pass**.
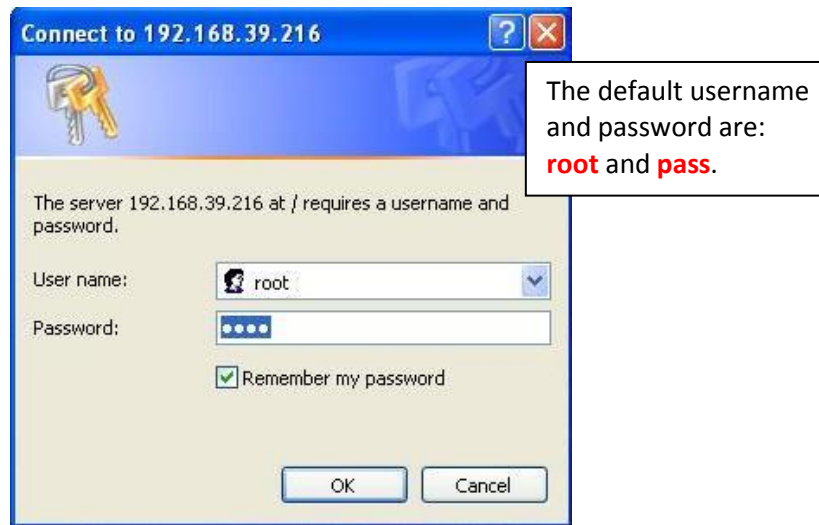
3. Click **System Options** on the left of the **Setup** page, and then select **TCP/IP** from the drop-down menu.
4. Input the data for the IP address configuration, and click the **Apply** button on the bottom of the page.

To change the IP address, please make sure to check and have the correct Subnet mask and Gateway ready. To use DHCP, select **Obtain an IP address via DHCP**.

To learn how to set up the web page for advanced configuration, refer to the Web Page User's Manual, which is available on the SDK at the following path.
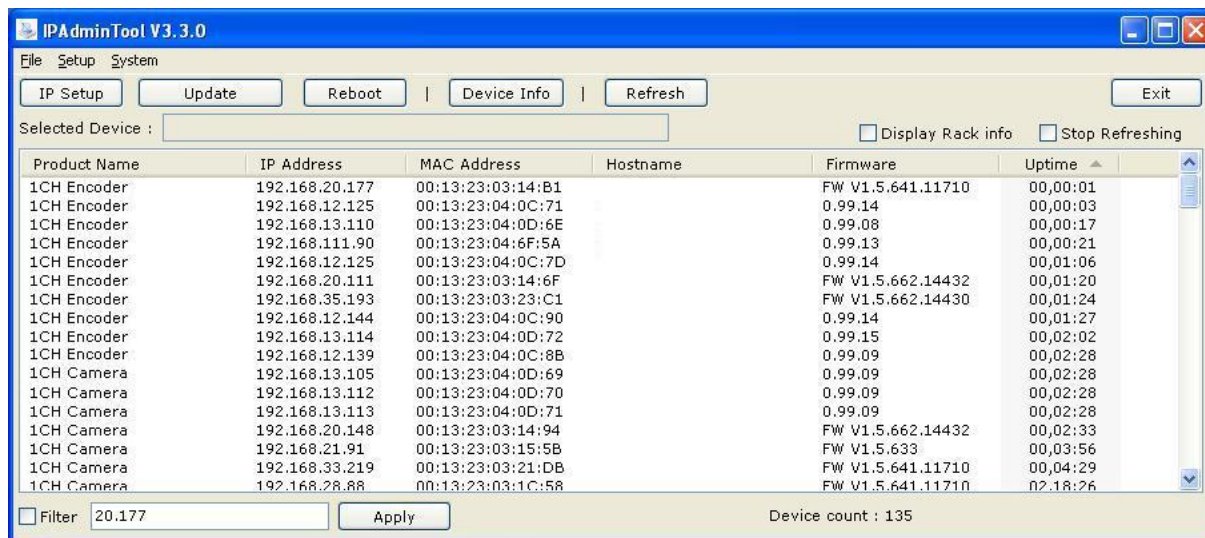
{SDK root}\DOC\

Advanced setup (IPAdminTool)

IPAdminTool is a utility program for IP products. Following list shows a part of features that IPAdminTool provides.

- Configure IP address, Subnet mask and Gateway
- Shows network related information such as MAC address
- Updates firmware
- Reboots the device

IPAdminTool is provided with SDK at the following SDK path.

{SDK root}\BIN\TOOLS\AdminTool\

Rebooting

Reset can be carried out as follows:
1. While the device is in use, press and hold the Reset.
2. Release the Reset button after 3 seconds.
3. Wait for the system to reboot.

Resetting to the Factory Default Settings

This will reset all parameters, including the IP address, to the Factory Default initialization.
To perform the Factory Default settings:
1. Disconnect the power supply from the device.
2. Connect the power to the device with the Reset button pressed and held.
3. Release the Reset button after 5 seconds.
4. Wait for the system to reboot.

More Information

To learn more about using other features of your devices, refer to the manual, which is available on the SDK at the following path.

{SDK root}\DOC\

EC551 Ver1.0

Hexadecimal-Decimal Conversion Table

Refer to the following table when you convert the MAC address of your device to IP address.

Hex	Dec	Hex	Dec	Hex	Dec	Hex	Dec
00	0	20	32	40	64	60	96
01	1	21	33	41	65	61	97
02	2	22	34	42	66	62	98
03	3	23	35	43	67	63	99
04	4	24	36	44	68	64	100
05	5	25	37	45	69	65	101
06	6	26	38	46	70	66	102
07	7	27	39	47	71	67	103
08	8	28	40	48	72	68	104
09	9	29	41	49	73	69	105
0A	10	2A	42	4A	74	6A	106
0B	11	2B	43	4B	75	6B	107
0C	12	2C	44	4C	76	6C	108
0D	13	2D	45	4D	77	6D	109
0E	14	2E	46	4E	78	6E	110
0F	15	2F	47	4F	79	6F	111
10	16	30	48	50	80	70	112
11	17	31	49	51	81	71	113
12	18	32	50	52	82	72	114
13	19	33	51	53	83	73	115
14	20	34	52	54	84	74	116
15	21	35	53	55	85	75	117
16	22	36	54	56	86	76	118
17	23	37	55	57	87	77	119
18	24	38	56	58	88	78	120
19	25	39	57	59	89	79	121
1A	26	3A	58	5A	90	7A	122
1B	27	3B	59	5B	91	7B	123
1C	28	3C	60	5C	92	7C	124
1D	29	3D	61	5D	93	7D	125
1E	30	3E	62	5E	94	7E	126
1F	31	3F	63	5F	95	7F	127

Hex	Dec	Hex	Dec	Hex	Dec	Hex	Dec
80	128	A0	160	C0	192	E0	224
81	129	A1	161	C1	193	E1	225
82	130	A2	162	C2	194	E2	226
83	131	A3	163	C3	195	E3	227
84	132	A4	164	C4	196	E4	228
85	133	A5	165	C5	197	E5	229
86	134	A6	166	C6	198	E6	230
87	135	A7	167	C7	199	E7	231
88	136	A8	168	C8	200	E8	232
89	137	A9	169	C9	201	E9	233
8A	138	AA	170	CA	202	EA	234
8B	139	AB	171	CB	203	EB	235
8C	140	AC	172	CC	204	EC	236
8D	141	AD	173	CD	205	ED	237
8E	142	AE	174	CE	206	EE	238
8F	143	AF	175	CF	207	EF	239
90	144	B0	176	D0	208	F0	240
91	145	B1	177	D1	209	F1	241
92	146	B2	178	D2	210	F2	242
93	147	B3	179	D3	211	F3	243
94	148	B4	180	D4	212	F4	244
95	149	B5	181	D5	213	F5	245
96	150	B6	182	D6	214	F6	246
97	151	B7	183	D7	215	F7	247
98	152	B8	184	D8	216	F8	248
99	153	B9	185	D9	217	F9	249
9A	154	BA	186	DA	218	FA	250
9B	155	BB	187	DB	219	FB	251
9C	156	BC	188	DC	220	FC	252
9D	157	BD	189	DD	221	FD	253
9E	158	BE	190	DE	222	FE	254
9F	159	BF	191	DF	223	FF	255