

User manual

Document Edition: The Manual for: Date:

V1.0

Fusion-F Camera

April 14, 2024



ETGAR 2 St. TIRAT-CARMEL, 3903213, ISRAEL SALES@EX-SIGHT.COM TEL: +972-777-841262

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Notes: For technical support please contact Ex-Sight.Com at info@ex-sight.com.

section 1

# **SYSTEM OVERVIEW**



### **SYSTEM MAIN PARTS**

### **Front View**

Window (Sapphire)



**LWIR Night Camera** Window (Germanium)

# **Rear View**



### Notes:

"Day Camera" mentioned in this manual refers to Low light sensor "Night Camera" mentioned in this manual refers to the LWIR Thermal sensor



# section 2

# **SYSTEM ASSEMBLY USER MANUAL**



# SYSTEM CONNECTION

Detailed description of system connection

**STEP 1** Place the Fusion-F on a flat and stable surface.

- STEP 2 Connect the cable connector (D38999/26KC35SN) on the Cable to the panel connector (D38999/23YC35PN) on the Fusion-F then screw the cable connector clockwise until it closes . Panel Connector
- **STEP 3** Connect the Ethernet connection on the Cable to the Ethernet port on the computer.

**STEP 4** Connect the **Power Wires** on the Cable to the **Power Source.** The supplied voltage should be 9V-36VDC (we recommend 12VDC).



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Cable

**Cable Connector** 





# section 3

# **APPLICATION INSTALATION**



# **GETTING STARTED**

Before using Fusion-F for the first time, download and install the **FusionDemo** application. Using this application allows easy control of the Fusion-F camera.

1. Go to Ex-Sight Website: <u>https://www.ex-sight.com/projects-6</u> (EOSS-FUSION-F) Double click on **CONTROL SOFTWARE** will start the app download process



2. Once the file is downloaded (The **FusionSa Setup** file in ZIP mode), start the installation by running the downloaded file.



3. Extract ZIP **FusionSa Setup** file into anew folder.



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# **GETTING STARTED**

Upon unzipping the **FusionSa Setup** file, the user needs to select the **Setup.exe** file to initiate the application installation process

1. Enter the **Setup.exe** File

💽 setup.exe
🚬 Setup.msi

2. Enter the Setup Wizard, choose install path, then confirm the installation

	FusionDemo     -     ×       Welcome to the FusionDemo Setup Wizard	FusionDemo – X Confirm Installation
The installer will guide you through the steps required to install FusionDemo on your computer.	The installer will guide you through the steps required to install FusionDemo on your computer.	The installer is ready to install FusionDemo on your computer. Click "Next" to start the installation.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.	WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.	< Back Next > Cancel

3. To start the installation, press the [Install]

FusionDemo – 🗆 X	Setup - Datastead RTSP/RTMP/HTTP/ONVIF DirectShow Sour X	w Sour — 🗆 🗙
Installing FusionDemo	Ready to Install         Installing           Setup is now ready to begin installing Datastead RTSP/RTMP/HTTP/ONVIF         Installing           DirectShow Source Filter on your computer.         Source Filter on your computer.	ITP/ONVIF DirectShow
FusionDemo is being installed.	Click Install to continue with the installation. Extracting files C:\Program Files\Datastead\RTSP_RTMP_HTTP_ONVIF\a	vcodec_dtstd_rtsp_x64.dll
Please wait		
< Back Next > Cancel	Install Cancel	Cancel

4. Click the **[Finish]** and then the **[Close]**. Once complete, an app icon will appear on your desktop.





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**S H O T** 

Section 4

# **APPLICATION OPERATION**



# **APPLICATION OPERATION**

Connect the Fusion-F camera before entering the application.

The video camera display application **FusionDemo** designed for both **Fusion-F** and **Situation** 

Awareness cameras developed by Ex-sight.com

After downloading the application, select the **Fusion-F** camera.

### Application home screen:





**The initial screen of the APP**: When Fusion-F is connected the stream from the cameras will appear on screen:



Main Menu Bar: the Toolbar on the main screen include DAY camera, NIGHT camera, VIDEO and SYSTEM MESSAGES





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# **FUSION TOOLBAR OVERVIEW**



The System message is a line indicating whether the given system command was successful or not (relevant only to system command)

For Example: After press the OSD Time command the system will shown

### System message: Get OSD Time Title request success

The **System commands** are at the bottom of the day camera and the night camera toolbar:

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Detailed Description Page 17	Detailed Description Page 21-22
<ul> <li>Start Record</li> <li>SnapShot</li> <li>Flip</li> <li>Settings</li> <li>MTU</li> <li>OSD Time</li> <li>Night Mode</li> </ul>	<ul> <li>Start Record</li> <li>SnapShot</li> <li>Flip</li> <li>Settings</li> <li>Lens Init(NUC)</li> <li>MTU</li> <li>Polarity</li> <li>Video Colors + Sharpness</li> <li>OSD Time</li> </ul>
Day Night 😓 Open stream Close stream	<ul> <li>Night Video   System n</li> <li>Open stream</li> <li>Close stream</li> </ul>

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**S H O T** 

# **TOOLBAR INDEX. DAY CAMERA**

### Detailed overview of the DAY CAMERA functions

The Day camera video stream connect auto camera will appear on the application scree By clicking on Open stream it will connect to This action is also valid in case the Day car connect automatically after disconnection, off	omatically and the video from the Day en. the day camera video stream. mera disconnects and does not or if the Day camera video is turned					
Clicking on Close stream will cause the app Day camera (not to disconnect the camera will be hidden. In order to turn the video back on, you need application will show the Day camera video	icking on Close stream will cause the application to turn off the video of the ay camera (not to disconnect the camera) and the video of the Day camera will ill be hidden. order to turn the video back on, you need to click on the Open stream and the oplication will show the Day camera video stream on the application screen					
Clicking on <b>Start Record</b> will cause the application to start recording the video. When the application records the video, the icon changes to: <b>Stop Record</b>	Clicking on <b>Stop Record</b> will cause the application to end the recording and create and save a recording file in the folder where the installation files of the application are saved					
Clicking on Snapshot will cause the application to open the file folder for the operator to choose the location and name of the image file that the application create (JPG type file). After the selection and clicking save, the image file will be saved in the choosing location						
Flip will cause the application to rotate the video image received from the day camera according to the desired degrees. Clicking on Flip will open a selection line:	In the selection bar, the operator can choose from the following options the number of degrees by which the application will rotate the video image from the day camera. The default is 0 degrees. The choices are: 90 degrees, 180 degrees and 270 degrees.					
Settings shows the current settings of the Day camera and allows the operator to change the settings if necessary. Clicking on Settings will open another toolbar with the settings categories	IP  User Pass Record Folder Auto Record Save					
	The Day camera video stream connect auto camera will appear on the application scree By clicking on Open stream it will connect it This action is also valid in case the Day car connect automatically after disconnection, off Clicking on Close stream will cause the app Day camera (not to disconnect the camera will be hidden. In order to turn the video back on, you need application will show the Day camera video Clicking on <b>Start Record</b> will cause the application to start recording the video. When the application records the video, the icon changes to: <b>Stop Record</b> Clicking on Snapshot will cause the applica operator to choose the location and name create (JPG type file). After the selection and clicking save, the in location Flip will cause the application to rotate the video image received from the day camera according to the desired degrees. Clicking on Flip will open a selection line:					





**270°** 



# DAY CAMERA. SETTINGS

### Detailed description of the contents of the SETTINGS tab

_					_	
<b>Q</b>	Settings	•	IF	)	•	192.168.1.160
	MTU	۲	U	lser	1	
	OSD Time		P	ass		a William -
	Night Mode	•	A	uto Record		
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		1				
-			_			
Ø	Settings	•		IP	9	
	MTU	•		User	1	admin
	OSD Time			Pass Record Folder		- A Brits ato
	Night Mode	•		Auto Record		
	1 miles	N		Save		
	1000	1				
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	MTU	•	L	Jser	•	
	OSD Time		F	Pass		12345
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	1000				_	
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	OSD Time			Record Folde	r	• .\Day <sup>1</sup>
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-				User		
	MTU			Pass		
	OSD Time			Record	Fold	ler 🕨
	Night Mode		•	<ul> <li>Auto Re</li> </ul>	core	d Ez
	The second second			Cours		
	and the second		1	Save	_	dia.
*	Cotting			ID		
*	Settings		•	IP		
	MTH			User		'

Pass

Save

**Record Folder** 

Auto Record

# IP

The configured IP address of the Day camera. Default: 192.168.1.160 The operator can changed it in the selection line

### USER

The configured User name of the Day camera. Default: admin The operator can changed it in the selection line

### PASS

The configured Password of the Day camera. Default: 12345 The operator can changed it in the selection line

### **RECORD FOLDER**

The configured Record Folder of the Day camera Videos recording. Default: .\day The operator can changed it in the selection line

### **AUTO RECORD**

The Auto Record of the Day camera. Default: manual recording The operator can changed it in to automatic record:

The application will record automatically all the time

### SAVE

Save is for saving changing on the setting. Clicking on Save will cause the application to save the operator changes off the setting.

OSD Time

16

Night Mode

# DAY CAMERA. SYSTEM COMMANDS

OSD Time

2024-04-08 12:26:50





Night Mode will cause the Day camera video image to turn colures to black white colures. Clicking on Night Mode opens another

toolbar:



**On:** turns the Night Mode on - Day camera video image colures is black white colures. **Off:** turns the Night Mode off- Day camera video image colures is multicolored.





# **TOOLBAR INDEX. NIGHT CAMERA**

### Detailed overview of the Night CAMERA functions

Open stream	The Night camera video stream connect automatically and the video from the Night camera will appear on the application screen. If not, clicking on Open stream will connect the Night camera video stream. This action is also valid in case the Night camera disconnects and does not connect automatically after disconnection, or if the Night camera video is turn off						
Close stream	Clicking on Close stream will cause the ap Night camera (not to disconnect the came camera will not appear on the application. In order to turn the video back on, you have application will tern on the Night camera v	licking on Close stream will cause the application to turn off the video of the light camera (not to disconnect the camera) and on the video of the Night amera will not appear on the application. In order to turn the video back on, you have to click on the Open stream and the application will tern on the Night camera video stream on the application screen.					
<ul><li>Start Record</li><li>Stop Record</li></ul>	Clicking on <b>Start Record</b> will cause the application to start recording the video. When the application records the video, the icon changes to: <b>Stop Record</b> Clicking on <b>Stop Record</b> Clicking on <b>Stop Record</b> Clicking on <b>Stop Record</b> create and save a recording file in th folder where the installation files of the application are saved						
SnapShot	Clicking on Snapshot will cause the application to open the file folder for the operator to choose the location and name of the image file that the application create (JPG type file). After the selection and clicking save, the image file will be saved in the choosing location						
Example in the page 21	Flip will cause the application to rotate the video image received from the day camera according to the desired degrees. Clicking on Flip will open a selection line:	In the selection bar, the operator can choose from the following options the number of degrees by which the application will rotate the video image from the day camera. The default is 0 degrees. The choices are: 90 degrees, 180 degrees and 270 degrees.					
<b>Settings</b> Detailed Description Page22	Settings shows the current settings of the Night camera and allows the operator to change the settings if necessary. Clicking on Settings will open another toolbar with the settings categories	IP User Pass Record Folder Auto Record Save					







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# **NIGHT CAMERA. SETTINGS**

### Detailed description of the contents of the SETTINGS tab

Settings	•	IP	•	192.168.1.161
Lens Init/NUIC)		User	•	AIMIN
Lens mit(NOC)		Pass	•	
MTU	•	1055		N
<ul> <li>Particular data</li> </ul>		Record Folder	•	AUTRUS
Polarity	•	Auto Record		AND KARAN
Video Colors + Sharpness			- N	
indee colore i biidipiicos		Save		

# Settings IP Lens Init(NUC) User MTU Pass Polarity Record Folder Video Colors + Sharpness Auto Record

¢	Settings	•	IP	•	123
	Lens Init/NUIC)		User	٠	11181
			Pass	•	12345
	MTU		Record Folder		AUUUS
	Polarity	•	Auto Record		<b>ANKA</b>
	Video Colors + Sharpness		Save		14

Settings •	IP	•	111
Lens Init/NUC)	User	•	11181
	Pass	- •	11111/2
MIU	Record Folder	•	.\Night\
Polarity •	Auto Record		ANDROUGH
Video Colors + Sharpness	Save		

٥	Settings	•	IP	•
	Lens Init(NUC)		User	•
	NATU .		Pass	•
	MIU	,	Record Folder	•
	Polarity	•	Auto Record	
	Video Colors + Sharpness		Save	

٥	Settings +	IP	•
	Lens Init(NUC)	User	
	MTU •	Pass Pasard Folder	
	Polarity Video Colors + Sharpness	Auto Record	
		Save	

### IP

The configured IP address of the Night camera. Default: 192.168.1.161 The operator can changed it in the selection line

### USER

The configured User name of the Night camera. Default: admin The operator can changed it in the selection line

### PASS

The configured Password of the Night camera. Default: 12345 The operator can changed it in the selection line

### **RECORD FOLDER**

The configured Record Folder of the Night camera Videos recording. Default: .\night The operator can changed it in the selection line

### **AUTO RECORD**

The Auto Record of the Night camera. Default: manual recording The operator can changed it in to automatic record: Auto Record

The application will record automatically all the time

### SAVE

Save is for saving changing on the setting. Clicking on Save will cause the application to save the operator changes off the setting.

# **NIGHT CAMERA. SYSTEM COMMANDS**



Polarity will cause the application to change the polarization information of the Night camera. The default is White Hot

Clicking on Polarity will open a selection line:

### **Polarity examples:**



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speed.





speed and click on Enter to save the new

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# **NIGHT CAMERA. SYSTEM COMMANDS**



Clicking on OSD Time will cause the date and time to appear on the Night camera video image.

When the date and time is shown on the video image the OSD Time will shown:





# **TOOLBAR INDEX. VIDEO**



### Night

Clicking on Night will cause the application to show only the stream from the night camera on the whole screen: Night



show only the stream from the day camera on





Clicking on Fusion will cause the application to show both streams from the day camera and night camera on the whole screen: Fusion





### **PRODUCT PIN LAYOUT**



# PANEL Pin Layout D38999/23YC35PN

**Stainless Steel Hermetic Connector** 

PIN#	DESCRIPTION
1	NC
2	NC
3	(+9 TO +36VDC) INPUT POWER
4	GND INPUT POWER
5	(+9 TO +36VDC) INPUT POWER
6	GND INPUT POWER
7	NC
8	NC
9	ETHERNET2 (1) TX+
10	ETHERNET2 (2) TX-
11	ETHERNET2 (3) RX+
12	ETHERNET2 (6) RX-
13	NC
14	NC
15	ETHERNET1 (1) TX+
16	ETHERNET1 (2) TX-
17	ETHERNET1 (3) RX+
18	ETHERNET1 (6) RX-
19	DAY VIDEO CVBS SIGNAL
20	DAY VIDEO CVBS GND
21	THERMAL VIDEO CVBS SIGNAL
22	THERMAL VIDEO CVBS GND

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CABLE PIN LAYOUT D38999/26KC35SN Stainless Steel Hermetic Connector

	DESCRIPTION
PIN#	DESCRIPTION
1	NC
2	NC
3	(+9 TO +36VDC) INPUT POWER
4	GND INPUT POWER
5	(+9 TO +36VDC) INPUT POWER
6	GND INPUT POWER
7	NC
8	NC
9	ETHERNET2 (1) TX+
10	ETHERNET2 (2) TX-
11	ETHERNET2 (3) RX+
12	ETHERNET2 (6) RX-
13	NC
14	NC
15	NC
16	NC
17	NC
18	NC
19	NC
20	NC
21	NC
22	NC

# Section 5

# FUSION-F PRODUCT DATASHEET



**FUSION-F** is a powerful pure digital dual sensor vision system for superior situational awareness

### **Product Highlights**

- Embedded network switch
- Sensor daisy chain via Ethernet to save cabling
- Two Analog Out CVBS interfaces Day + LWIR
- ONVIF Low Light Day Sensor 1080x1920
- ONVIF LWIR 12 µm Sensor
- Hermetic IP-67, Nitrogen Purged, Military Grade
- Hermetic MIL.STD D38999/23YC35PN Connector
- Black Hard Anodized CNC Aluminum Chassis
- Easy Sensor-To-Screen, Sensor-To-PC Installation
- Optional SD card recording
- 9-36VDC Embedded Power Stabilizer







**FUSION-F** 



# **UNCOOLED LWIR DVE SYSTEM**

### THERMAL SENSOR

UNCOOLED LWIR 12 µm, RESOLUTION (PIXELS) 640x512/1280x1024, LENS (640) 5.8mm / (1280) 13mm, FOV 67° (69.4° x57.3° )/ 61° x50°, PITCH 12µm, SPECTRAL BAND 8-14 µm/ 7.5-13.5µm , FRAME RATE 50 FPS, SENSITIVITY (NEDT) <50mK at F/1.0, GERMANIUM WINDOW

### **DAY SENSOR (VIS)**

SONY IMX327 1920x1080/2MP FULL HD, H.265/H.264/MJPEG, Video Frame Main stream1920\*1080(30fps), Sub stream: 1280\*720/704\*576 640\*480 352\*288(30fps), Video Bit rate 16kbps~20Mbps, CBR/VBR, S/N Ratio ≥60dB, Min Illumination 0.001Lux@F1.2, Ethernet Interface 1PCS RJ45 10M/100M TCP/IP, UDP, RTP, RTSP, RTCP, RTMP, HTTP, DNS, DDNS, DHCP, NTP, PPPOE, SMTP, UPNP SAPPHIRE WINDOW 3mm

### FOV DAY SENSOR

LENS 4mm DC DRIVE M12, FOV (H) 84.6° (V) 45.9° (D) 100.0°

### INTERFACES

ANALOG OUT FORMAT:2 OUTPUTS X PAL (DAY + LWIR), ETHERNET SINGLE CONNECTION, INTERNAL EMBEDDED SWITCH, SDK WEB INTERFACE, VIDEO COMPRESSION RTSP H.264 / H.265 STREAMING, CAMERA CONTROL - SDK (CODE EXAMPLES INCLUDED), VIDEO STREAM : 2 SEPARATE DIGITAL VIDEO CHANNELS FROM EACH CAMERA WITH DIFFERENT SETUPS, HERMETIC D38999/23YC35PN CONNECTOR

### **PSU (POWER SUPPLY UNIT)**

9-36VDC, NOMINAL 5.6W, (MAX on LOAD 12W)

### HOUSING

BLACK HARD ANODIZED ALUMINUM, STAINLESS STEEL N316 SCREWS, NITROGEN VALVE IN, SEALED OUTPUT SCREW , IP-67, NITROGEN PURGED, "O" RINGS

### **ENVIRONMENTAL**

OPERATING TEMP -20°C to +80°C

### DIMENSIONS

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(LxWxH, mm) 147x119x96mm, WEIGHT 2,300 gm

### FUSION-F640 DRI LWIR (m)



### FUSION-F1280 DRI LWIR (m)



Calculation according to Johnson Criteria

### **FUSION-F PART NUMBERING:**

### FUSION-F[RES]-[FOV]-[POS]

[RES] LWIR RESOLUTION 640 (LWIR 640x512 , 5.8mm) 1280 (LWIR 1280x1024 , 13mm)

### **SENSOR POSITIONING**

### HORIZONTAL



[FOV] FIELD OF VIEW 70 (69.4° x 57.3°) S – Synchronized FOV, LWIR & DAY FOV are similar

[POS] POSITION H (HORIZONTAL) V (VERTICAL)

VERTICAL







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# **PRODUCT PIN LAYOUT**

### PANEL PIN LAYOUT D38999/23YC35PN Stainless Steel Hermetic Connector



### **PART Numbering Index**

PIN#	DESCRIPTION
1	NC
2	NC
3	(+9 TO +36VDC) INPUT POWER
4	GND INPUT POWER
5	(+9 TO +36VDC) INPUT POWER
6	GND INPUT POWER
7	NC
8	NC
9	ETHERNET2 (1) TX+
10	ETHERNET2 (2) TX-
11	ETHERNET2 (3) RX+
12	ETHERNET2 (6) RX-
13	NC
14	NC
15	ETHERNET1 (1) TX+
16	ETHERNET1 (2) TX-
17	ETHERNET1 (3) RX+
18	ETHERNET1 (6) RX-
19	DAY VIDEO CVBS SIGNAL
20	DAY VIDEO CVBS GND
21	THERMAL VIDEO CVBS SIGNAL
22	THERMAL VIDEO CVBS GND

#	P/N	DESCRIPTION
1	D38999/23YC35PN	Mil. Std Stainless Steel connector
2	MS51377-2 MS51607-1 MS20813-1	Nitrogen Valve Core Nitrogen MS Valves Nitrogen Fitting



# **CABLE PART NUMBERING**

# SC CABLE



# CC CABLE



### **CABLE PART NUMBERING:**

FUSION-F-CABLE-[CT]-[LEN1]-[LEN2]

[CT] CABLE TYPE: SC (SINGLE CABLE) CC (CHAINED CABLE)

[LEN1] CABLE LENGTH in Meters

[LEN2] CHAINED CABLE LENGTH in Meters (CC cable only)

# **RQT1601875 CABLE**

# **CABLE SPECIFICATION**

### 22 Conductor Cable

### Components:



### 20 AWG pairs:

Conductor: 20 AWG 19/32 Tinned Copper. Insulation: ETFE, OD 1.4 mm. Color Code: Black, Red.

### Cable:

Two (2) Cat. 5e 4X2X24 AWG SF/UTP. Three (3) 20 AWG unshielded twisted pairs.

# Ø 17.5 mm

Jacket

### Jacket:

Halogen-free, flame retardant, Cross Linked Thermoplastic Elastomer. to 17.5 mm nom – Black

### Marking:

31

Jacket marked 'RQT1601875 - Week & Year of Manufacture' at 1000mm intervals.

### Performance:

Min. Bend Radius:	180 mm
Min. Band Radius for Operation:	150°mm
Max. Operation Temperature:	+90 C
Min. Operation Temperature:	- 40 C
UV Resistance:	Yes
Weight:	260 Kg/Km

# **CABLE PIN LAYOUT**

### CABLE PIN LAYOUT

### D38999/26KC35SN

Stainless Steel Hermetic Connector

PIN	DESCRIPTION
1	NC
2	NC
3	(+9 TO +36VDC) INPUT POWER
4	GND INPUT POWER
5	(+9 TO +36VDC) INPUT POWER
6	GND INPUT POWER
7	NC
8	NC
9	ETHERNET2 (1) TX+
10	ETHERNET2 (2) TX-
11	ETHERNET2 (3) RX+

PIN	DESCRIPTION
12	ETHERNET2 (6) RX-
13	NC
14	NC
15	NC
16	NC
17	NC
18	NC
19	NC
20	NC
21	NC
22	NC

### FUSION-F-CABLE-SC-[LEN1]

FUSION-F-CABLE is RQT1601875 Cable (6\*20AWG + SPEC 55) with specified length.

The cable includes connector D38999/26KC35SN Mil. Std Stainless Steel that connects to the connector D38999/23YC35PN on the FUSION-F.

On the other side of the cable there is a connection to Power 9-36V (open black wire + open red wire) and RJ45 Giga Ethernet connection

### CABLE PART NUMBERING INDEX

#	P/N	DESCRIPTION
1	[LEN1]	Total Cable length (meters)
2	D38999/26KC35SN	Mil. Std Stainless Steel connector (200°C, firewall capability, 500 hour salt spray resistance)
3	RQND-40S2-S-1307	Stainless Steel Backshell
4	202K121-25-0	Boot
5	Cable RQT1601875	6*20AWG + SPEC55 (RAYCHEM DR-25)
6	Cable RQT1601875	6*20AWG + SPEC55 (1m) (RAYCHEM DR-25)
7	RJ45 Ethernet	Main Ethernet connector
8	Power Wires	20AWG For 9V-36V input



# **CABLE PIN LAYOUT**

### CABLE PIN LAYOUT

### D38999/26KC35SN

Stainless Steel Hermetic Connector

PIN	DESCRIPTION
1	NC
2	NC
3	(+9 TO +36VDC) INPUT POWER
4	GND INPUT POWER
5	(+9 TO +36VDC) INPUT POWER
6	GND INPUT POWER
7	NC
8	NC
9	ETHERNET2 (1) TX+
10	ETHERNET2 (2) TX-
11	ETHERNET2 (3) RX+

PIN	DESCRIPTION
12	ETHERNET2 (6) RX-
13	NC
14	NC
15	NC
16	NC
17	NC
18	NC
19	NC
20	NC
21	NC
22	NC

### FUSION-F-CABLE-CC-[LEN1]-[LEN2]

FUSION-F-CABLE is RQT1601875 Cable (6\*20AWG + SPEC 55) with specified length and Additional Chained sensor connector.

The cable includes two connectors D38999/26KC35SN Mil. Std Stainless Steel that connects to the connectors

D38999/23YC35PN on the two FUSION-F.

On the other side of the cable there is a connection to Power 9-36V (open black wire + open red wire) and RJ45 Giga Ethernet connection.

### CABLE PART NUMBERING INDEX

#	P/N	DESCRIPTION
1	[LEN1]	Total Cable length (meters)
2	D38999/26KC35SN	Mil. Std Stainless Steel connector (200°C, firewall capability, 500 hour salt spray resistance)
3	RQND-40S2-S-1307	Stainless Steel Backshell
4	202K121-25-0	Boot
5	[LEN2]	Chained Cable Length (meter) from split
6	Cable RQT1601875	6*20AWG + SPEC55 (RAYCHEM DR-25)
7	Cable RQT1601875	6*20AWG + SPEC55 (1m) (RAYCHEM DR-25)
8	RJ45 Ethernet	Main Ethernet connector
9	Power Wires	20AWG For 9V-36V input



# INSTALLATION

### **FUSION-F-BRKT-01**





### **FUSION-F-BRKT-01**





### **BRACKET PART NUMBERING:**

FUSION-F-BRKT-[BT]

[BT] BRACKET TYPE: 01 ANODIZED ALUMINUM LIGHT BRACKET 02 BLACK STEEL BRACKET



# INSTALLATION

**0°** 

### **POSSIBLE INSTALLATION ANGLES**







130°

Ex-Sight.Com

**S H O T** 

ΟΝΕ





135°

ETGAR 2 St. TIRAT-CARMEL, 3903213, ISRAEL SALES@EX-SIGHT.COM TEL: +972-777-841262

# INSTALLATION

### **INSTALLATION ANGLES LIMITATIONS**

### -15°





**0°** 







**50°** 



