i-Conex
Miniature Inter-Connection System

Key features:

- i-Conex makes installing and wiring Ovation video surveillance products simple and effective.

- Interfaces to commonly used video, audio and power connectors.

- Any cable can be extended with simple to install in-line extension cables.

- Range of i-Conex peripherals including miniature cameras, microphones and GPS receivers.
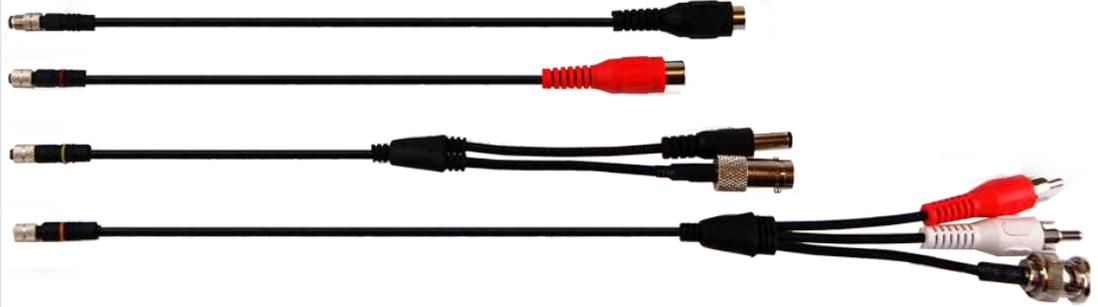
i-Conex miniature, easy to install, Inter-Connection and Cabling System.

i-Conex is the new cabling systems developed by Ovation Systems, specially designed to make the installation and wiring of Ovation's range of digital video recorders and video surveillance products simple and effective.

The heart of the system is a miniature 4 pin watertight screw-locking connector with a range of cable assemblies which interface to many commonly used video, audio and power connectors. One of the huge advantages of the i-Conex system is that any cable can be easily extended by a simple to install in-line extension. This allows the cable lengths to be easily tailored for each and every installation, on-site, without the need to use a soldering iron, wire cutters etc. There is a range of i-Conex compatible peripherals including microphones, bullet cameras and GPS receivers.
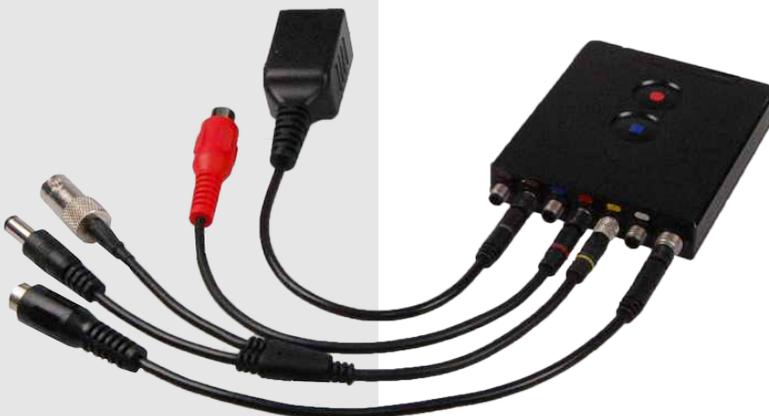
i-Conex cable assemblies fitted to Ovation's FlashBack-4 digital video recorder

i-Conex cable-end connector

Looking into connector

i-Conex is available for the following products:

i-Conex
Miniature Inter-Connection System

FlashBack-3C Dual DVR/Video Streamer

FlashBack-3C Single DVR/Video Streamer

micro-FourSight-C Advanced Video Quad

FlashBack-2C Pod Rugged DVR

SoundByte High Quality Covert Audio Recorder

FlashBack-3G DVR, Video Streamer and GPS Tracker

FlashBack4: 4xSD or 1x HD SD Card DVR

i-Conex Colour Codes & Pinouts:

i-Conex connectors and cable assemblies are colour coded for each function as shown below. Cables should not be interconnected with other functions eg. audio into video, although damage will not result. Pinouts are shown opposite.

- ⬜ No colour: DC power / trigger inputs
- 🟨 Video + camera power
- 🟦 RS232 / GPS
- 🟥 Stereo Audio In + mic bias
- 🟩 Record control / trigger
- 🟫 Ethernet
- 🟧 Video & audio monitor out

Video In 2 ② — ① Camera Power
Video In 1 ③ — ④ Video Ground

TXD ② — ① GPS Power (3.3/5V DC)
RXD ③ — ④ Ground
(Blue and brown connector pin-outs are identical)

Audio Out L ② — ① Video Out
Audio Out R ③ — ④ Ground

6 to 28 V DC In ① — ② Rec Control 2 (record trigger)
Ground ④ — ③ Rec Control 1 (record switch)

Audio In R ② — ① Mic Bias (~3V DC)
Audio In L ③ — ④ Audio Ground

Rec Control 2 ② — ① Record OK
(record trigger)
Rec Control 1 ③ — ④ Ground
(record switch)

As looking into the i-Conex connectors on the rear of a unit (not cable ends)

Pin 1 Red
Pin 2 Green
Pin 3 Blue
Pin 4 Screen

i-Conex cable colours
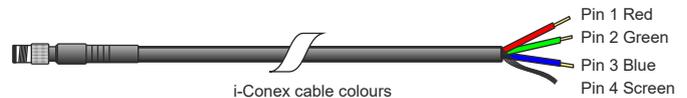
i-Conex Colour Bullet Cam (with FlashBack-3C Single)

i-Conex GPS Receiver

i-Conex Knowles microphone pair

Power: cables to supply DC power

IC1C-5642: Power DC Jack:

2.1mm DC Jack Plug
Centre Pin +Ve

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑
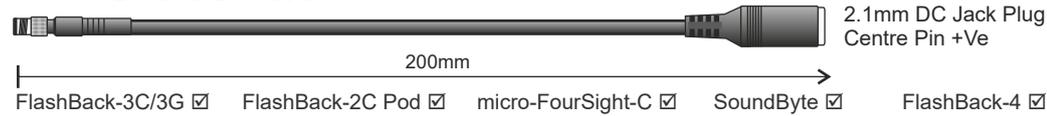
IC1C-5645: Power and control cable (male):

Red   /(Brown) - DC IN
Green/(White) - Rec Ctl 2
Blue   - Rec Ctl 1
Braid/(Black)   - Ground

1.5m

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑

IC1C-6070: Thin power and control cable (male):

Red   /(Brown) - DC IN
Green/(White) - Rec Ctl 2
Blue   - Rec Ctl 1
Braid/(Black)   - Ground

1.0m

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑
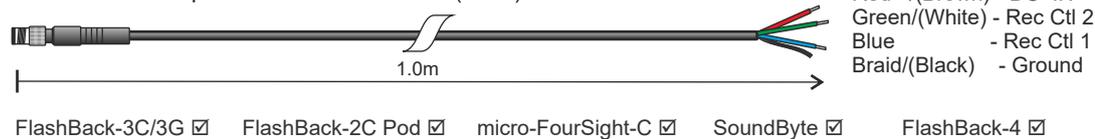
Splitters: add extra capability to an i-Conex input

IC1C-5653: Splitter Cable:

Used for splitting
video, audio feeds
to an i-Conex input

50mm   50mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑
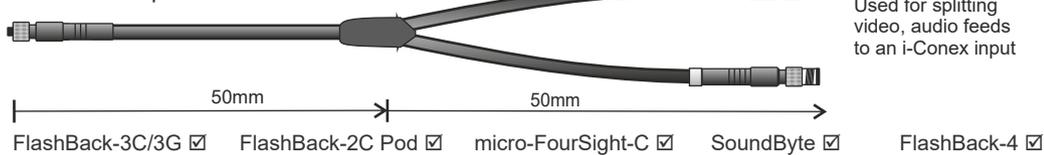
IC1C-5874: Thin Splitter Cable:

Used for adding
video, audio feeds
and microphones
to an i-Conex input

50mm   50mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑
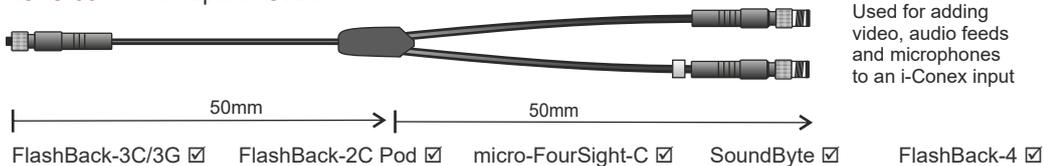
IC1C-5875: Thin Power Cable Splitter:

Used for splitting
power Connector
input functions
(eg separating power
& trigger inputs)

50mm   50mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑

i-Conex
Miniature Inter-Connection System
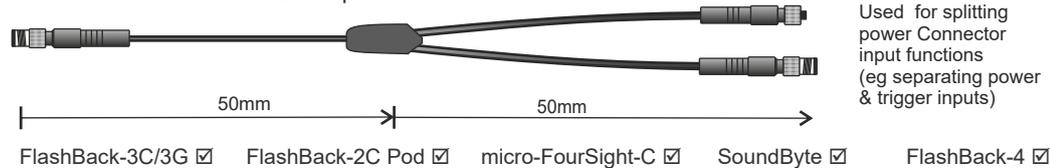
Extensions: cables to extend i-Conex Connection

IC1C-5650: Short Extension 0.5m:

0.5m Male to Female Extension

500mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑

IC1C-5651: Medium Extension 1.0m:

1m Male to Female Extension

1m

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑

IC1C-5652: Long Extension 5.0m:

5m Male to Female Extension

5m

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑

IC1C-5873: Ultra-Short Extension 40mm:

Ultra short extension

40MM

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑

IC1C-5791: i-Conex female to female link cable 200mm long:

Female to female link cable.

200mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑

IC1C-5872: Thin Medium Extension 1.0m:

1m Male to Female Extension

1m

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑
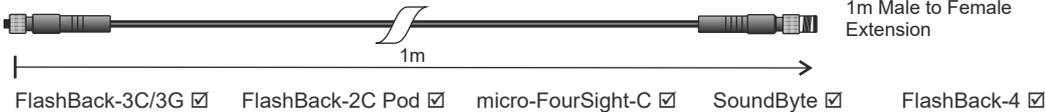
Dust Caps & Lanyards: for protecting unused i-Conex inputs

IC1A-5861: Plug Dust Cap   **IC1A-5883:** 4 Way Dust Cap Lanyard

IC1A-5862: Power Socket Dust Cap   **IC1A-5884:** 7 Way Dust Cap Lanyard

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑

**Please note:** Ovation Systems reserves the right to change specifications without notice. E&OE

Control Cables & Peripherals

i-Conex

Miniature Inter-Connection System

Control: external trigger and control cables

IC1C-5646: General purpose signal / control cable (female):

Red   - Signal / Power
Green   - Signal 2
Blue   - Signal 1
Braid   - Ground

1.5m

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑
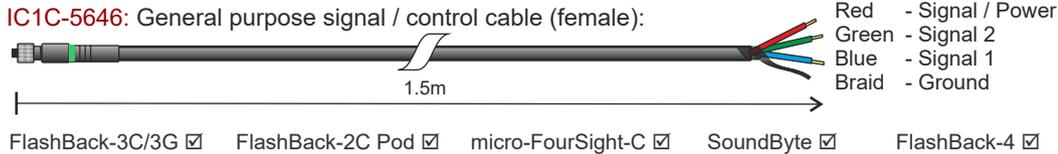
IC1C-6074: Thin general purpose signal / control cable (female):

Red   - Signal / Power
Green   - Signal 2
Blue   - Signal 1
Braid   - Ground

1.0 m

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑
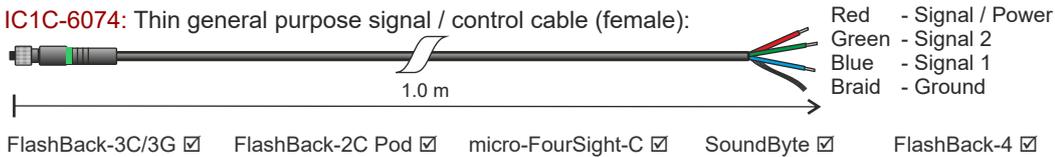
IC1A-5647: Record Push Switch with LED:

Record push*
switch with
red LED

500mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑

IC1A-5682: Mini Wide-Beam PIR Detector:

Mini PIR*
Detector with
mounting bracket

500mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑
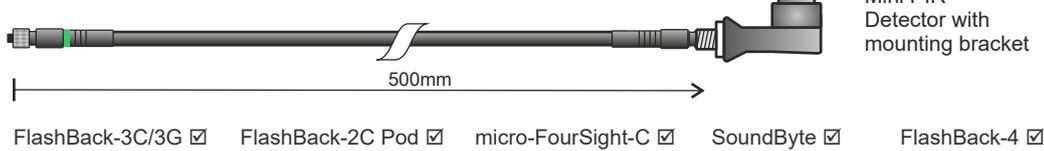
IC1A-5680: Mini Narrow-Beam PIR Detector:

Mini PIR*
Detector with
mounting bracket

500mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑

* Additional IC1C-5653 splitter cable maybe required with some installations.

Audio & Video Interface Cables:

i-Conex
*Miniature Inter-Connection System*

IC1C-5654: Video in:

Video In

200mm

BNC female

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☒   FlashBack-4 ☑
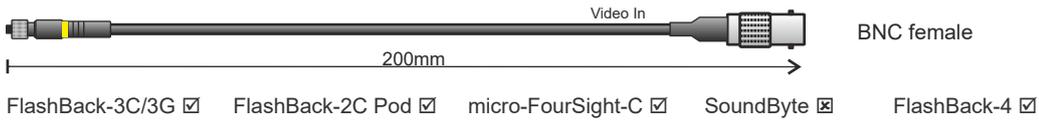
IC1C-5655: Video in & camera power out:

Video In

BNC female

Camera DC out

2.1mm DC Jack Plug
Centre Pin +Ve

100mm   100mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☒   FlashBack-4 ☑
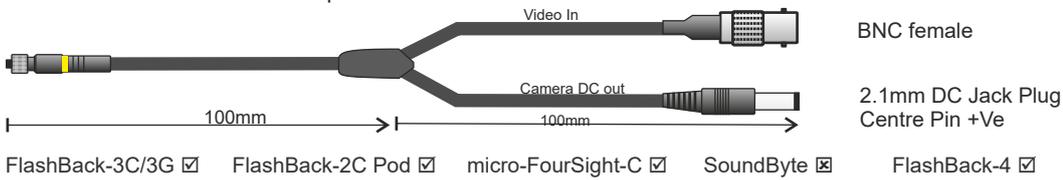
IC1C-5657: Audio in pair: (can be used for video when required)

Audio left
RCA Phono socket

Audio right
RCA Phono socket

200mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☑   SoundByte ☑   FlashBack-4 ☑
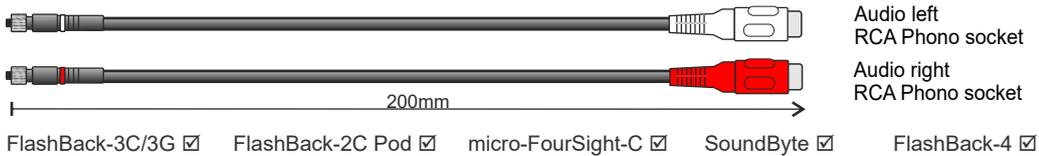
IC1C-5656: Video & audio monitor out

Video
BNC male

Audio left
RCA Phono plug

Audio right
RCA Phono plug

200mm   100mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☒   micro-FourSight-C ☒   SoundByte ☒   FlashBack-4 ☑
(FB 3 Dual only)
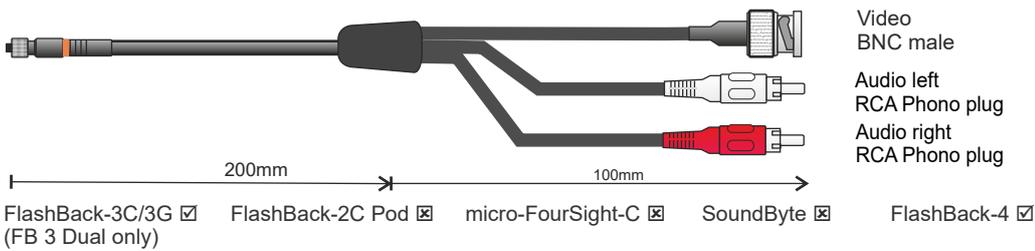
IC1C-5924: 4 pole A/V monitor output jack to inline i-Conex

Used with IC1C-5656 above
for FlashBack-4 A/V monitor output

200mm

FlashBack-3C/3G ☒   FlashBack-2C Pod ☒   micro-FourSight-C ☒   SoundByte ☒   FlashBack-4 ☑
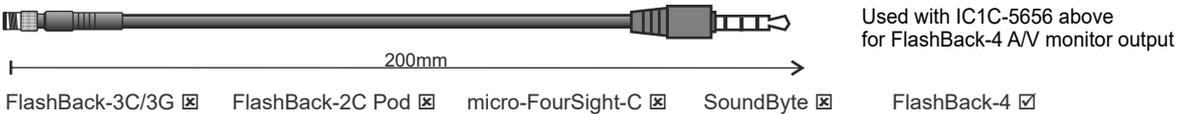
Interface Cables

Interface Cables:

IC1C-5648: Network Interface Cable:

Ethernet Socket

200mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☒   SoundByte ☒   FlashBack-4 ☑

IC1C-5649: RS232 Interface Cable:

RS232 D-Type Female

200mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☒   SoundByte ☒   FlashBack-4 ☑
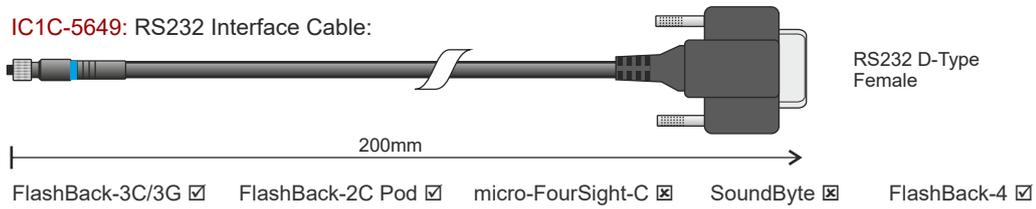
IC1C-5901: USB Interface Cable:

USB Cable

200mm

FlashBack-3C/3G ☒   FlashBack-2C Pod ☒   micro-FourSight-C ☒   SoundByte ☒   FlashBack-4 ☑
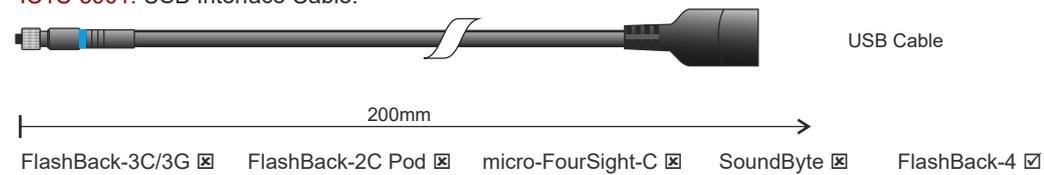
IC1A-5863: In-line RS232 to RS422 / RS485 Converter:

500mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☒   micro-FourSight-C ☒   SoundByte ☒   FlashBack-4 ☑
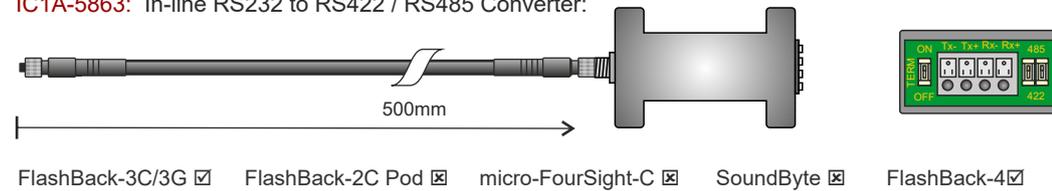
StarVis HD cameras for FlashBack-4:

FB4A-6014: FB4 M12 pinhole HD micro-Cam with 1080p Sony STARVIS low-light sensor.

25mm

*

1m
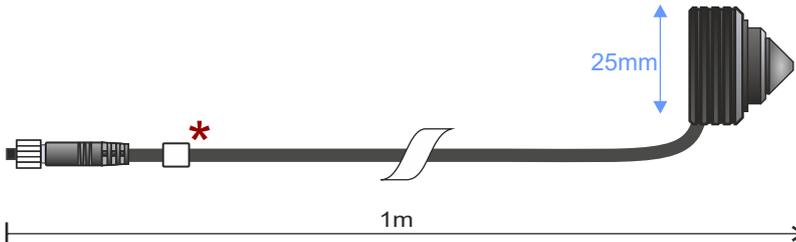
Full HD (1080p/25/30) i-Conex , Sony StarVis sensor, 0.05 Lux, 4.3mm lense (changeable), 5 to 12V DC (170mA@ 5V)
Full kit with interchangeable lenses available.

FB4A-6013: FB4 M12 board lens HD micro-Cam with 1080p Sony STARVIS low-light sensor.

25mm

*

1m
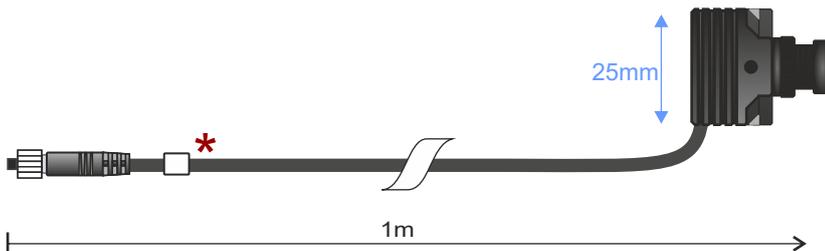
Full HD (1080p/25/30), Sony StarVis sensor, 0.05 Lux, 4.3mm lense (changeable), 5 to 12V DC (170mA@ 5V)
Full kit with interchangeable lenses available.

IC1C-6026: i-Conex shielded HD camera extension cable 2 metres long.

*   *

2m
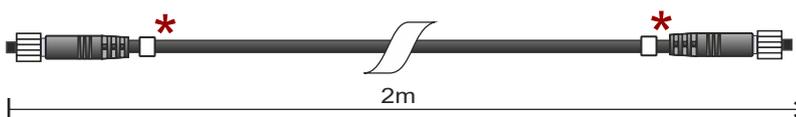
* Please note, all FB-4 HD StarVis cameras should only be used with screened
HD cables indicated by a white ring.

Microphones and Peripherals

IC1A-5664: External Knowles Microphone (pair):

Knowles Mic Left (IC1A-5666)

Knowles Mic Right (IC1A-5665)

200mm

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☒   SoundByte ☑   FlashBack-4 ☑

IC1A-5865: Thin Cable External Knowles Microphone (1.0m):

Knowles Mic Left

Knowles Mic Right

1.0m

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☒   SoundByte ☑   FlashBack-4 ☑

IC1A-5667: GPS Antenna / Receiver:

GPS Receiver / Antenna

1.2m

FlashBack-3C/3G ☑   FlashBack-2C Pod ☑   micro-FourSight-C ☒   SoundByte ☑   FlashBack-4 ☑

For i-Conex Standard Definition Cameras, please see separate datasheet