

FITT360^{SECURITY}

360-Degree Body Worn Camera

<h2>BRIEF SPECIFICATION</h2>

Model Name: LFFTSC1-Gen3

LINKFLOW

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LINKFLOW Inc.


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FITT360 SECURITY, World-first 360-Degree Body Worn Camera

1. GENERAL DESCRIPTION

FITT360^{SECURITY} is world first and only high performance body worn camera system that captures all of scenes in 360-degree. This camera system consists of *Necklace part, System part, External Battery pack and Cradle*. Four HD grade cameras of Necklace part capture video images, and processor of System part compresses those video images and save them as a file to secured storage. External Battery pack extends operating time up-to 8Hr. When the System part is inserted to Cradle, recorded video data will be transmitted to the designated external server automatically. Cradle power source is prepared for a 19V power adapter and 12V automotive cigar jack cable.

FITT360^{SECURITY} is designed for tough environment usage such as police officers and security guards. Its durable housing provides IPX4 grade water-proof.

- Possible Application
 - Police officers Protection for law enforcement
 - Safety Guards
 - Health and safety applications
 - Portable CCTV replacement at Construction Site
 - Industrial maintenance sites

2. KEY FEATURES

- Appearance
 - Necklace part with 4x HD Camera modules capturing video images around neck
 - 3 kinds of cable length – TBD (450mm, 500mm, and 600mm)
 - Selectable Neck size – TBD
 - Velcro tie
 - System part for encoding and file saving to micro-SD card with secured manner, with control buttons
 - Detachable Necklace part connector
 - Optional Wi-Fi slot for real-time video sharing
 - Optional GPS port
 - Micro-HDMI port and TV Out port
 - Status indicators – TBD (Power, Cam1, 2, 3, and 4, Battery capacitance, Wi-Fi, GPS, u-SD Card)
 - IPX4 grade water-proof
 - External Battery pack
 - Cradle for video data transmission and device charging
 - Standard Single Cradle
 - Optional Multi-unit Cradle (Simultaneous charging and data transmission up-to 5 units)

- Optical Features and Image managements
 - Four HD grade cameras (1280x720 4ea)
 - F2.0 (Typical)
 - View Angle: Diagonal 133° each
 - Noise Reduction (2DNR, 3DNR), Defog
 - Auto Color balance - TBD
- Electrical Features
 - High performance ARM-based Processor
 - Standard 32GB micro-SD support
 - Li-Polymer Internal standard Battery (2Hr) + Additional Long-life Battery (6Hr)
- External Interfaces
 - System: μ -HDMI Port, TV-Out Port, and Cradle Connection Port
 - Cradle: System part, External Battery Connection Port, Ethernet Port, Power Adapter DC-Jack
- LED Indication
 - Recording Indicator (Left side of System part):
Red LED Blinking for Recording
 - Power On/Battery level Indicator (Right side of System part):
Green LED on for high battery level
Amber LED on for mid battery level
Red LED On for low battery level
- Buttons
 - Power Button (Right side of System part):
Long press for Power on/off
Short press during power on state is for display toggle between HDMI and TV Out
Short press during power off state is for checking battery level
 - Recording Button (Left side of System part):
Short press for recording on/stop
Long press for system update
 - Reset Button (Hidden)
System forced reboot in error condition
- Related Software (TBD)
 - Action log, System status log, and Error log
 - Video status information (Device ID, Cam Channel, Date, Time, Location, Firmware Version)
 - Supervisor management / configuration software
 - Multi-channel live streaming
 - Storage APIs
 - Time sync

3. MECHANICAL SPECIFICATIONS

- Dimensions
 - Necklace part : 162mm(W) x 157.7mm(H) x 90mm(D)
 - System part : 79mm(W) x 148.6mm(H) x 26.5mm(D)
 - Second Battery part : 81.3mm(W) x 147.6mm(H) x 50.9mm(D)
 - Cradle part : 266mm(W) x 151mm(H) x 75mm(D)

[Necklace part]



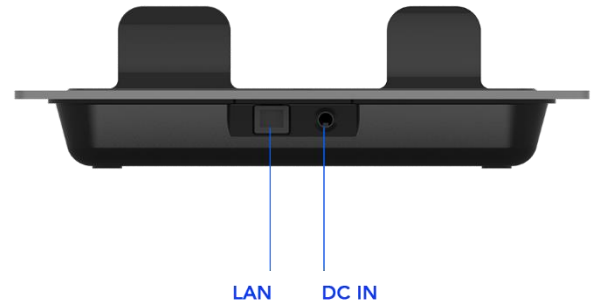
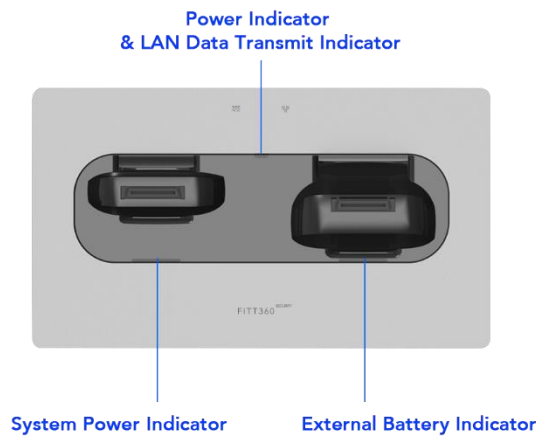
[System part]



[Second battery]



[Cradle]



- Weight: Necklace Part 164g, System 252g, External Battery 379g
- Color: Dark gray and Black (System part)

4. OPTICAL / VIDEO SPECIFICATIONS

ITEM		Specifications
Optical	F Number	F2.0 $\pm 5\%$
	EFL	3.0mm $\pm 5\%$
	MTF	0.0F 120 lp/mm (53.2%) 0.5F 100 lp/mm (70.9%(R), 61.2%(T))
	Viewing Angle (each)	133° $\pm 5^\circ$ (D)
	IR Cut-off Filter @T 50%	650 ± 5 nm
Video	Output video Resolution	4x [1280x720]
	Frame rate	24fps
	Compression Codec	Needs NDA
	Output File format	Secured own format

5. ELECTRICAL SPECIFICATIONS

ITEM		Specifications
Electrical Ratings	Maximum Input Voltage	21 [V] for Cradle Power DC-Jack
	Recommended Input	19V /3.42A for power adapter 12V 5.4A for automotive cigar jack cable
Operating	Battery Life	More than 2 hours for continuous recording with internal battery, more than 9 Hours for continuous recording with additional external battery pack
	Charging	Fast charging via Cradle
	Charging time	2.5Hr Max

6. Warranty

12 months warranty with options for extended warranty

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