



The Quicklink Merlin is the most advanced broadcasting solution on the market. Designed for total mobility, our Merlin transmits broadcast quality adaptive video from the most remote locations. The Merlin will support both SDI and I.P web based playout to multiple locations using our optional QMM.

The Merlin backpack has been used successfully at high profile events such as the World Economic Forum in Davos, Switzerland, the World Cup in South Africa and the 2011 British Royal Wedding.

Testimonial

'I am not a dealer for Quicklink, just a customer and a massive fan happy to spread the word. Over the past few years we have been using other companies for live streaming but have been frustrated with the many shortcomings of their systems. It's only since we have been using the Quicklink for Store and Forward as well as the Merlin with its superior aerial system and ease of use that we have achieved broadcast quality streams using 6 3G cards.' During February of 2012 at AFCON we managed to send 270 HD stories from Equatorial Guinea and Gabon to South Africa using our hotel internet. The total saving for the broadcaster was 2 Million GBP in Satellite costs. (This is worked out at 1800 GBP per 15 minute Sat Window purchased from Sport5.). We currently have Quicklink systems in Kenya, Nigeria, Angola, Zambia and South Africa.

Russell Belter,
CEO WildCam International

The Merlin

Part of the Quicklink brand; designed by Journalists for Journalists



Why buy Merlin?



The most advanced bonding algorithm providing the highest quality with lowest delay. Quicklink is well known for providing reliable, professional broadcast solutions.

We aim to please our customers to be always satisfied with our products and service.

The Merlin Backpack encoder fits seamlessly with the existing Quicklink global infrastructure with Major networks such BBC News, ABC News, Sky News, Aljazeera Network, ITN, MBC News Al-Arabiya. This means that major news networks are already equipped to receive video transmissions from live contributors.



Why buy Merlin?

A total solution

Through design, development and customer feedback we have launched our latest Merlin. With the ability to transmit via bonded 3G/4G, satellite, ADSL, WiFi & WiMAX to a Quicklink server direct to your newsroom, the Merlin offers a complete mobile solution.

Simple to operate

Fully customised touchscreen interface that has been designed by journalists in the field for simplicity of use. All software version upgrades and technological improvements are continuously available to ensure that the product remains ahead of the game.



Add additional antenna

Standard external SMA connectors give you the flexibility to attach your own high gain antennas or boosters which can be roof mounted or directional.



Smooth Video

Transmission remains full frame throughout the adaptive bandwidth range. This ensures a video transmission that is smooth and natural.

Fast and efficient

Built-in, proprietary antenna solution that gives signal in dead zones, 6 high gain industrial grade modems, full frame motion experience, adaptive bit rate with full Real Time Optimisation (RTO) and advanced error concealment delivers the best viewing experience at all times.

Durable & Dependable

Designed for comfort and durability, the Merlin incorporates our toughest 3006E solid-state encoder encased in a robust shell with fully welded seams. Built to last in extreme environments.

Patent Pending passive antenna system

Incorporates our unique Patent Pending passive antenna system, which converts dead zones to live zones. No inbuilt active amplifier/booster means that no telecom license application is required for every live street location.

Custom designed

A unique black backpack that is tough anti-tear, anti-bacterial, rainproof with rainproof airvents. shoulder and waist padded straps, cable tidy and screen protector all are important design features for the operator in daily use.

Features

- 3G/3.5G/4G, Satellite, dual Ethernet, WiMAX connections. (optional CDMA)
- Automatic modem activation in and out of the bond to keep the selected latency constant.
- Custom designed backpack that is tough anti-tear, anti-bacterial, and rainproof.
- External SMA connectors for optional additional long range antennae.
- Full frame 25 fps/30 fps throughout the adaptive bitrates ranges.
- Mobile and Lightweight.
- High gain industrial modems and antennas as opposed to standard 3.5G
- Includes the 3006E-HD touch screen encoder which supports both SD and HD and with HD automatic down conversion to SD.
- Quicklink Live LNG Software is included (please see separate Live LNG software brochure for information)

The Merlin

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Technical Specifications

Video

Video Inputs

DV Firewire 1394 (6 Pin)
SDI Video Input 1 x 10 bit HD/SD (BNC)
Optional Analogue

SD Video Formats

625/25 PAL, 525/29.97 NTSC and 525/23.98 NTSC.

HD Video Formats

720p50, 720p59.94, 720p60, 1080PsF23.98, 1080p23.98, 1080PsF24, 1080p24, 1080PsF25, 1080p25, 1080PsF29.97, 1080p29.97, 1080PsF30, 1080p30, 1080i50, 1080i59.94 and 1080i60.

Video Sampling

4:2:2 and 4:2:0

Colour Precision

10 bit

Colour Space

4:2:2 YUV

Video Encoder

MPEG-4 Video part 10 (AVC/H.264), Baseline, Main and High Profile
H.264 video codec including bespoke enhancements

SDI Compliance

SMPTE 292M, SMPTE 259M, SMPTE 296M, SMPTE 372M, ITU-R BT.656 and ITU-R BT.601

Audio

Audio Inputs

SDI Embedded Audio. Optional Analogue
Audio Input 2 Channels unbalanced RCA

Audio Sampling

Television standard sample rate of 48 kHz and 24 bit

Audio Encoder

2 audio codecs
LC-AAC 16Kbps to 320 Kbps
AAC-HE2 12Kbps to 56Kbps

Audio Talkback IFB

1 X Analogue 3.5mm Jack Audio IFB /
Bluetooth Talkback connectors

Network

Network Support

Up to 6 inbuilt high gain modems. Wi-Fi, WiMAX, Ethernet, USB, Satellite, Thuraya, BGAN, VSAT and Yahsat.

Supported Technologies

LTE, HSPA+, HSDPA, HSUPA, CDMA EVDO Rev 0, Rev A, UMTS, WiMAX, Wi-Fi 802.11 a, b, g & n

Hardware

Input/ Output Ports

1 x DB15 VGA port, 1 x PS/2, 6 x USB 2.0 ports, 1 x COM, Dual Ethernet as standard
•LAN Interface: 2 x Gigabit Ethernet

Solid State Disk

FDM Flash Disk Module

CPU

Intel Mobile Low Power Processor

Memory

4Gb DDR3 1333MHz

Antennae

In built custom antennae system . Standard SMA connectors for optional directional and high gain roof mounted antennae.

Physical

Control

8.4" LCD touchscreen; USB/PS2 mouse and keyboard, full web based remote control

GUI

Simple , Easy to Use .Video preview with Audio level indicators

Size

3006E-HD Encoder :200mms x 300mms x 60mms (7.8" x 11.8" x 2.3")
Total Merlin : 480mms x 350mms x 170mms (18.8" x 13.7" x 6.7")

Weight

3006E-HD Encoder : 2.13Kg (4.69lbs)
Total Merlin : 5.9Kg (13lbs)

Power Requirement

12V ~ 26 V full range DC input 100 ~230V via power transformer (Supplied)

Battery Operation

Choice of Sony V-lock , Anton Bauer or PAG battery Connectors.
Operating time 2-4 hrs depending on operation. Hot Swappable Battery Operation.

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