DVR EXPRESS®
CORE

Portable DVR with Removable Solid State Storage

Models: Camera Link, GigE Vision, 3G-SDI, NTSC/PAL and S-Video

With models available for recording from many popular video standards, **IO Industries DVR Express® Core** is our most advanced digital video recorder and the first portable DVR designed to work the way you do. It's small enough to hand-carry to a data collection site. Data can be quickly and conveniently downloaded to a computer using its 3Gb eSATA port. As well, Core's quad-pack solid state drive shuttle can be removed in just a few seconds and the 2.5" SATA drives can then be installed into a computer for analysis.

All DVR Express® Core models support uncompressed video recording at the maximum data rate of their respective video standards – with no frame drops. Every captured frame of video is time-stamped in hardware with sub-microsecond accuracy. Core's internal timer can be synchronized to the time clock of a remote computer, facilitating synchronization to IRIG-B and GPS receivers. Core's RAID storage engine provides an added level of protection against data loss.

DVR Express® Core is uniquely designed for remote control by laptop, workstation or handheld computer. The user interacts with the remote computer to control Core and to review the imagery captured by Core. Operations including live video display, video playback and video export can be performed simultaneously with video recording. **IO Industries CoreView™** software, included with the purchase of Core, is installed on the remote computer and provides control of Core.

A host of other features simplify the integration of Core with computers and other electronics. Core's 14-30V DC power input and its low power consumption, less than 35W with drives installed, ease the task of powering the device in vehicles and aircraft. Trigger I/O using TTL and LVDS signals provides realtime interfacing to other devices. A rugged aluminum enclosure allows Core to withstand the rigors of use in the field.

Contact IO Industries today and find out how a DVR Express® Core can make your work easier.

Product Highlights

- **Uncompressed recording to removable solid state drives**
- **Remote control by external computer**
- **Data protection using RAID**
- **Low power (<35W with drives) and light weight (1.4 kg)**
- **Rugged aluminum enclosure**

Designed for use in aircraft, vehicles, the factory, and the laboratory

Comes with DVR control software

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DVR Express® CORE Specifications

Models (rear view)

DVR Express® Core Camera Link Base

· (2) Camera Link Base inputs
· Maximum input clock frequency of 85MHz
· Supports monochrome (8 to 16bits) and color (Bayer or RGB)

DVR Express® Core Camera Link Full

· (1) Camera Link Full or Medium, or (2) Camera Link Base inputs
· Maximum input clock frequency of 85MHz
· Supports monochrome (8 to 16bits) and color (Bayer or RGB)

DVR Express® Core GigE Vision

· (2) GigE Vision™ inputs
· Full support for GenICam™ cameras

DVR Express® Core 3G-SDI

· (2) 3G/HD/SD-SDI inputs with repeaters
· SMPTE : 425M, 260M, 259M, 274M, 296M, 125M
· Includes : 1080p, 1080i, 720p, 720i, 480p, 480i
· Contact IO Industries about SMTPE audio and other standards

DVR Express® Core NTSC / PAL

· (4) Analog composite inputs
· Supports NTSC and PAL formats

DVR Express® Core S-Video

· (4) Analog S-Video inputs

Features of All Models

Connection to Remote Computer:
3Gb eSATA

Trigger Input / Ouput:
(6) Bi-directional TTL lines
(2) LVDS inputs/outputs

Time Stamping:
Every recorded frame is time-stamped by hardware time code generator

Synchronization:
Time code generator can be synchronized to external IRIG, GPS, or other external clock

Control Software:
CoreView™, Core SDK, Streams™ 5
(Windows XP/Vista/7 - 32/64 bit)

Storage

· Removable quad-pack drive shuttle
· Up to (4) 2.5" solid state SATA drives
· RAID (levels 0, 1, 0+1, 3)

Mechanicals

Dimensions:
320 x 165 x 50 mm (12.6 x 6.5 x 2")
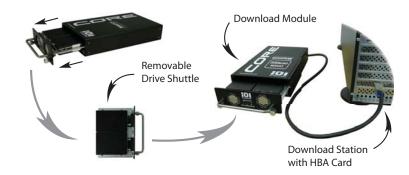**Weight:**
1.4 kg* (3.1 lbs)
Case:
Black, aluminum
Power:
14-30V DC, < 35W*

* Depending on model and storage

DVR Express® CORE Workflow

DVR Express® CORE
eSATA Port
Removable Drive Shuttle
Download Module
Download Station with HBA Card

RECORD → TRANSPORT → DOWNLOAD

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