datavideo®

Sharing the Value

■MS-900
Mobile Video Studios

8-channel SD mobile video studio

MS-900

Datavideo MS-900 is a fully integrated mobile video studio designed around Datavideo SE-900 modular 8-channel SD switcher. The MS-900 feature set can be expanded with additional input cards and accessories as your requirements evolve.

The Datavideo MS-900 accepts up to 8 SD inputs of your choice including DV, SDI, DVI YUV and Composite Video. Standard outputs include DV, YUV, S-Video (Y/C) and Composite Video.

Thanks to a built in frame synchroniser and TBC for each channel no external genlock is required for flicker free switching between all 8 inputs - in any format.

Optional genlock input card is available for genlock to existing house reference.

The Multi Image Preview output allows all 8 input channels, together with the preview and program buses to be seen on one screen. The screen also features tally information, the live source is highlighted in Red and the cued source is highlighted in yellow. In addition each input card offers a Composite Video preview putput, irrespective of the input type.

The Datavideo MS-900 features also include a down stream keyer (DSK) for integration with character generator such as Datavideo CG-100 or CG-350. Overlay Keying can be performed internally or externally. A separate Logo Display can be used independently of the DSK utilising two built in stores.

An optional Chroma Key board can be fitted to add a 4 channel Chroma Key function. Each channel can be set independently, and you can seamlessly switch from one to another. This is ideal for virtual studio or newsroom type applications.

To accommodate for anydelay in DV or SDI equipment SE-900 includes an audio delay function as well as a DV/SDI audio embedder for output. Additionally each DV and SDI video in put has an audio de-embedder which provides dual channel balanced audio output.

❶	Digital SD Switcher	SE-900
❷	Talkback/Intercom	ITC-100
❸	17" TFT LCD Monitor	TLM-170
❹	Digital Video Recorder	DN-500

FEATURES

- Complete integrated solution, including 8-channel SD switcher, multi display monitor, hard drive recorder and talk back system with built in tally feature.
- Multi-format video – up to 8 inputs with a choice of SDI, DV, DVI, Component (Y:U:V), S-video (Y/C) & Composite Video.
- Balanced audio input with built in delay function to ensure perfect synchronizing of video.

- Built in frame synchroniser and TBC for each channel, no external genlock is required for flicker free switching between all 8 inputs in any format.
- Advanced multi-screen monitor for confident preview or each source together with next source/effect preview and program output – with overlayed tally indicator.
- Up to 4 live camera input virtual studio with optional Chroma Key card

- Integrated high-capacity removable hard disk video recorders.
- Integrated Datavideo PD-1 power distribu tion centre provides a simple and secure solution for connecting power in the studio or in the field from a 12V source, such as a generator
- Easy Setup, breakdown and storage at any location. Designed to be "live-in-seconds"
- Anti shock padding protects the MS-900 during transit.

FEATURES

Built in TLM-170 pull-out 17" monitor

1

2

The Key-board folds up during transport

3

Connect a computer and switch between live video and popular computer applica-tions such as presentation and more.

Transit lock of the SE-900 keyboard to avoid transit dam-age.

SDI Overlay Board enables overlay of text and anima-tions using a Character Generator Software such as Datavideo's CG-100 or CG-350
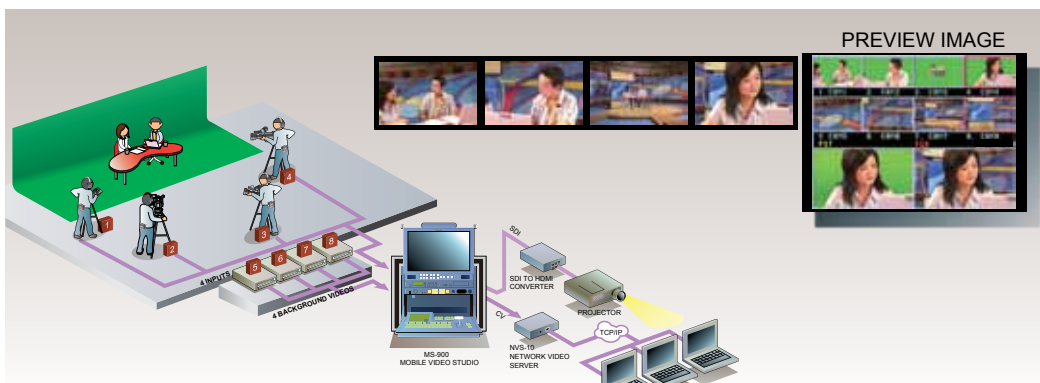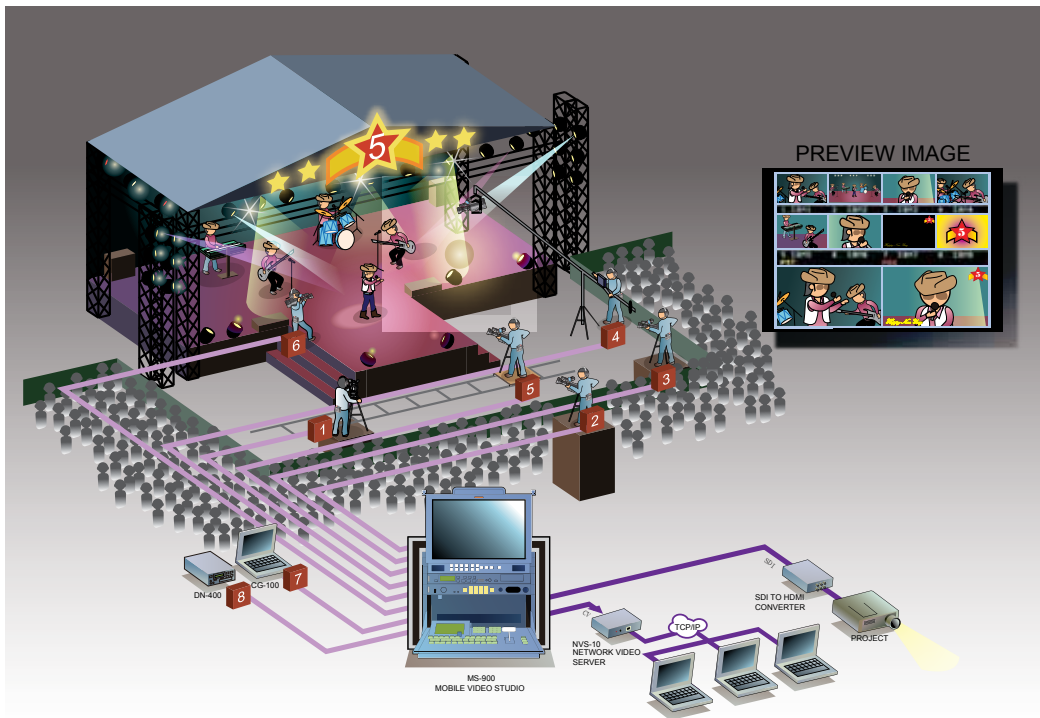
Use the optional dual colour chromakey board to produce exciting chromakey studio setup with up to four back-grounds.
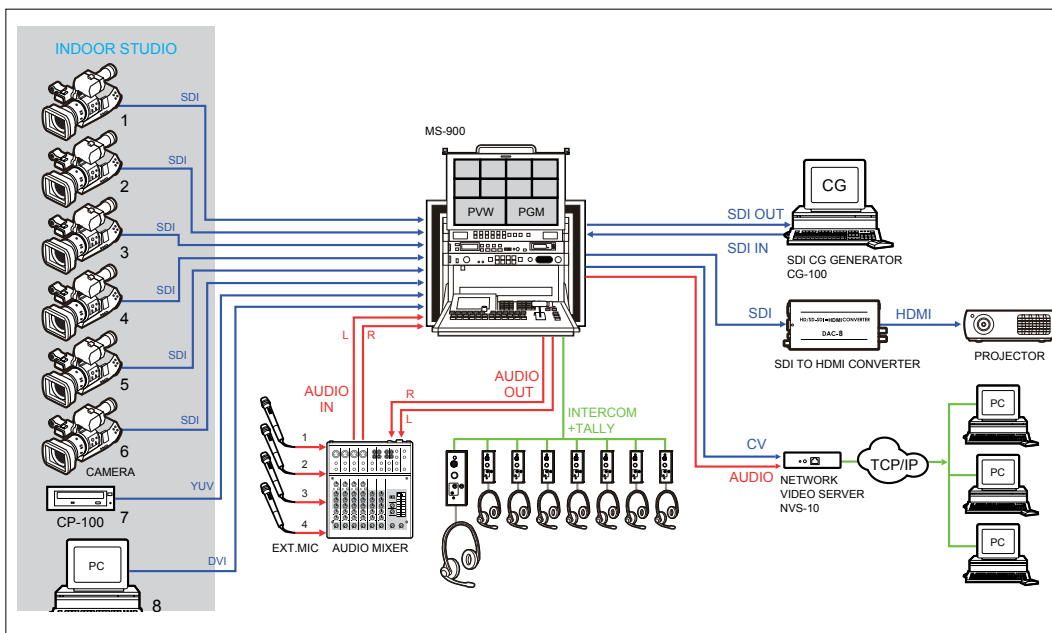
Add logo to your video with the easy to use lumakey function

APPLICATION DIAGRAM

PREVIEW IMAGE

DN-400 CG-100 7

8

MS-900
MOBILE VIDEO STUDIO

SDI TO HDMI
CONVERTER

TCP/IP

NVS-10
NETWORK VIDEO
SERVER

PROJECT

PREVIEW IMAGE

4 INPUTS

4 BACKGROUND VIDEOS

MS-900
MOBILE VIDEO STUDIO

SDI TO HDMI
CONVERTER

SDI

CV

PROJECTOR

TCP/IP

NVS-10
NETWORK VIDEO
SERVER

SETUP DIAGRAM

INDOOR STUDIO

1 SDI
2 SDI
3 SDI
4 SDI
5 SDI
6 SDI

CAMERA

7 YUV
CP-100

8 DVI
PC

MS-900

PVW PGM

SDI OUT

SDI IN

SDI CG GENERATOR
CG-100

CG

SDI HDMI
SDI TO HDMI CONVERTER DAC-8

PROJECTOR

L R

AUDIO
IN

AUDIO
OUT

R
L

INTERCOM
+TALLY

CV

AUDIO

NETWORK
VIDEO SERVER
NVS-10

TCP/IP

PC
PC
PC

1
2
3
4

EXT.MIC AUDIO MIXER

VIRTUAL MULTI-CAMERA STUDIO

1 SDI
2 SDI
3 SDI
4 SDI

CAMERA

PC VGA
PC VGA
PC VGA
PC VGA

Back Ground Source

MS-900

SDI OUT
SDI IN

CG

SDI CG GENERATOR CG-100

PROGRAM

YUV

YUV MONITOR

L R
AUDIO IN
R
L
AUDIO OUT

INTERCOM +TALLY

1
2
3
4

EXT.MIC   AUDIO MIXER

CV

NETWORK VIDEO SERVER NVS-10

TCP/IP

PC
PC
PC

REAR VIEW

RP-45 (OPTIONAL)
PD-3 (OPTIONAL)
RP-6
PD-1

SE-900

DIMENSIONS

720
620
475
485

620(W) x 485(H) x 720(D) (mm)
Voltage: 100-240VAC, 50/60HZ,
1.6A/770mA, 240W Max
Weight: 68KG.
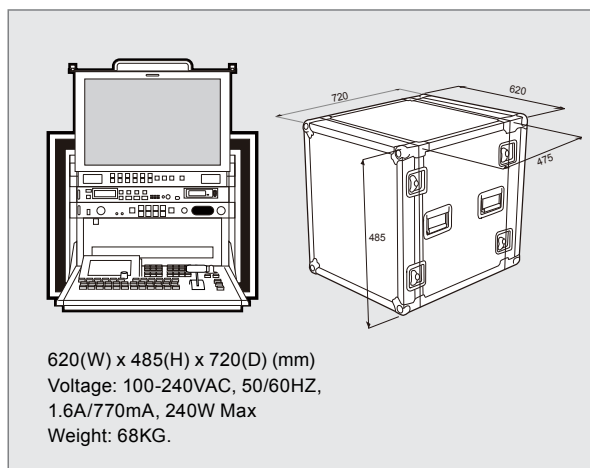
OPTIONAL ACCESSORIES

AD-100	CKL-300	DAC-40	HE-1	NVS-10
Audio Delay Box	Chromakey Solution	HD/SD-SDI To DVI/VGA Converter.	Hard Drive Carrier for DN Hard Drive recorder.	Network Video Server.

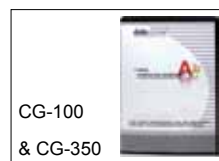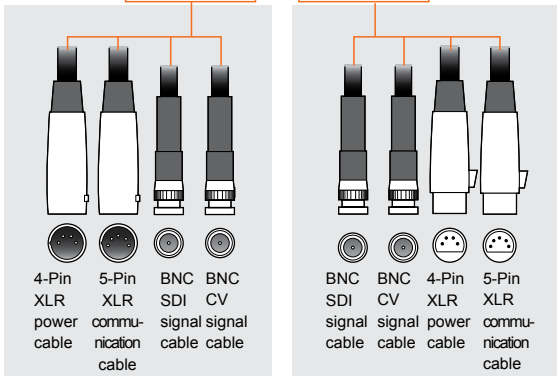| CB-22 & CB-23	CB-9	CB-101	CB-21	CG-100 & CG-350
All in One Cable.	1.8m DVI-I Cable.	3m HD/SD YUV Cable.	1.8m DVI To VGA Cable.	SDI CG Overlay Software.

OPTIONAL ACCESSORIES

Complete your system with an All In One Cable

CB-22 - 30 Meter or CB-23 - 50 Meter.

Secure, Easy & Convenient On Location

| 4-Pin XLR power cable | 5-Pin XLR commu-nication cable | BNC SDI signal cable | BNC CV signal cable | BNC SDI signal cable | BNC CV signal cable | 4-Pin XLR power cable | 5-Pin XLR commu-nication cable |

The Datavideo All in One Cable is a easy and convenient solutions to cabling on location, as well as in studio.
Available in both 30 meters (CB-22) or 50 meters (CB-23) lengths.

DC To DC Converter
DDC-2512

The DDC-2512 allows equipment connection to unregulated power sources, such as generators, batteries or other sources typically found on location.
Ideal for use with the CB-22 or CB-23 all in one cable.
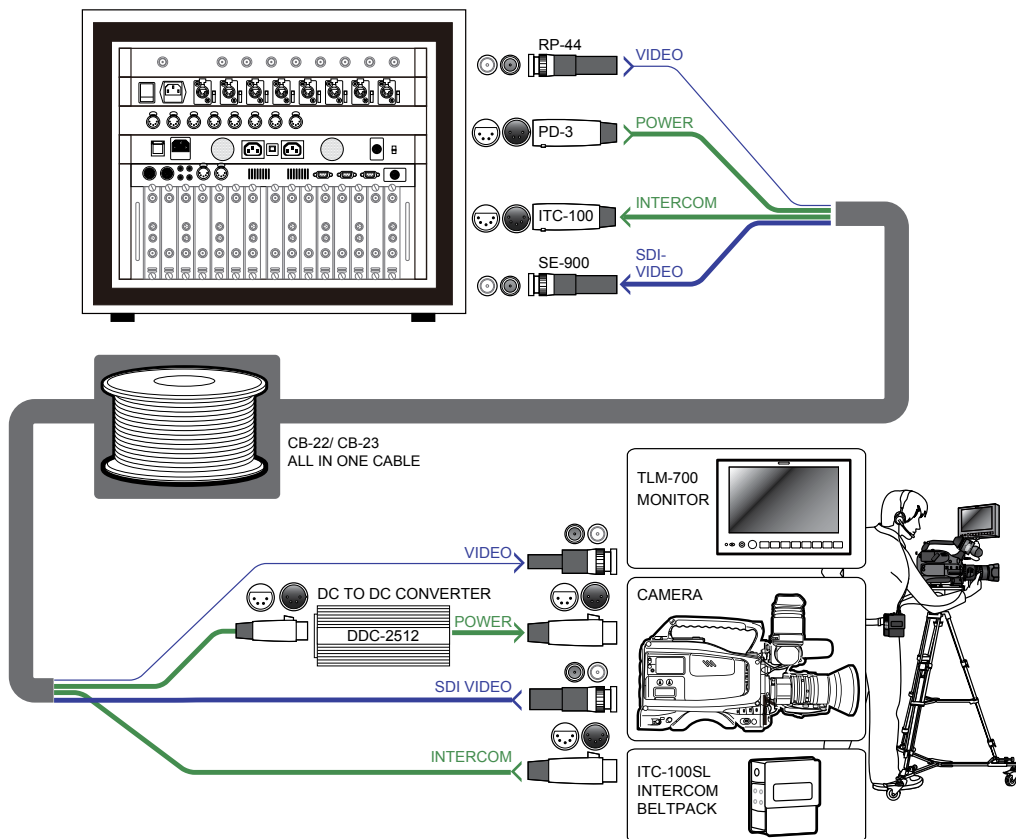
Power Center
PD-3

The Datavideo PD-3 is universal power distribution center, with eight separate power outlet - Each can be configured individually, DC24V, 18V, 14.4V & 12V, with a total power consumptions of 360 Watts.

Video distribution amplifier
RP-45

The Datavideo RP-45 is an eight composite video distribution amplifier for use with the CB-22 or CB-23.

SETUP DIAGRAM

RP-44 — VIDEO

PD-3 — POWER

ITC-100 — INTERCOM

SE-900 — SDI-VIDEO

CB-22/ CB-23 ALL IN ONE CABLE

VIDEO

DC TO DC CONVERTER
DDC-2512 — POWER

SDI VIDEO

INTERCOM

TLM-700 MONITOR

CAMERA

ITC-100SL INTERCOM BELTPACK

OPTIONAL BOARDS

The Datavideo MS-900 allows easy installation of optional boards, including SDI, DVI, Down Stream Keyer, Genlock in, and others.

All inputs are synchronised internally, so no genlock is required, even between ordinary consumer camcorders/players and computer equipment

INCLUDED

External Control Board

RS-232, RS-422 & GPI control interface board allow easy integration with existing equipment that can be controlled such as tape recorders and players or presentation control panels

SDI Overlay Board

A down stream keyer (DSK) board offers both Internal and External keying options.
Perfect for integration with character generator hardware/software such as Datavideo CG-100 or CG-350

DVI Multi Viewer Board
The DVI multi-image output display allows all inputs, master & next source output to be displayed on a single monitor, with superimposed tally and source information to assist the producer in a hectic live production environment in high resolution using traditional computer monitors or LCD TV's
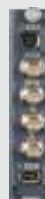
Analogue and DV - Output Board

Output card for a range of popular video formats including DV (with embedded audio from the audio delay circuit) Composite Video, S-Video (Y/C) and Component (Y:U:V)

OPTIONAL

SDI Input Board

For users who work with SDI. The SDI input board also includes audio deembedding to a balanced pair.
Features a useful Composite monitor output, for easy connection to an external preview monitor
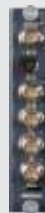
Analogue Video - Input Board

For users who require input from a range of popular analogue video formats including Composite Video, S-Video (Y/C) and Component (Y:U:V) – Built in Time Base Corrector synchronises each input - enabling non genlock equipment to be used without glitches. Features a useful Composite Video monitor output, for easy connection to an external preview monitor

DVI-D & VGA Input Board

Connect a computer and switch between live video and popular computer applications such as presentation and more.
Perfect for live events like worship and company presentations.
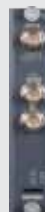Features a Composite monitor output, for easy connection to an external preview monitor

DV Input Board

For users who work with Digital Video (DV). The DV input board also de-embeds the audio to a pair of balanced outputs

Four Channel Chromakey Board

Create a virtual Chromakey video studio with glitchfree switching between up to four video inputs. You can pair four foregrounds (e. g. talent/actor in front of the camera) and backgrounds (like virtual created backgrounds) - the internal Time Base Corrector takes care of synchronizing - even non genlock equipment, like ordinary consumer camcorders can be used

SDI Output Board

For users who work with SDI. The SDI Output board also features a useful Composite Video monitor output, for easy connection to an external preview monitor

Genlock Board

GENLOCK card is a common technique where the video output of one source, or a specific reference signal, is used to synchronize other sources together.
Sync to external black-burst reference design