KX0410CN
4 CHANNEL COLOR DUPLEX MULTIPLEXER

The KX0410CN is part of Ultrak's line of professional digital processing products. This high performance color duplex multiplexer uses Real-time Video Processing (RVP) to achieve the fastest recording rate possible, up to 60 unique fields per second. Dynamic Scene Sensing™ (DSS) uses true motion detection criteria with both day and night modes. Five primary display modes allow virtually any overlayed or scaled camera display configuration. A covert camera function and timers with weekly schedules allow the unit to be configured for any application.

Additionally, this professional multiplexer provides outstanding color reproduction with a digital picture adjustment for the most viewing intensive applications. RS-232 and RS-485 communication allow easy system integration.

The advanced features of this multiplexer as well as its user-friendly on-screen-programmable menu makes it the most functionally flexible system video processor on the market.

- Camera switch pulse allows automatic VCR/multiplexer synchronization
- Full duplex operation allows simultaneous recording and multi-screen viewing
- Real-time Video Processing (RVP) allows up to 60 unique fields per second
- Outstanding picture quality provided by a 720 x 480 resolution
- Primary display formats provide a convenient user interface with three PIP options and 2X2 as well as Full-screen and 2X Zoom
- Dual monitor outputs (Main and Spot) allow multi-camera and full-screen viewing
- On-screen display includes date, time, alarm status, video loss and 9-character camera titles
- Dynamic Scene Sensing™ (DSS) allows motion detection for each camera input with a day and night mode as well as a global relay output
- Multi-format decoding of major manufacturer's multiplexers including: Robot, DM, Pelco & others. Call for details.

- DSS criteria are sensitivity, trigger size, delay, and location via a 256-section grid
- Nonvolatile program memory saves all user settings and protects all user settings against power loss
- Two timers for day of week scheduling of external, DSS, and video loss alarms
- Sequence mode (mode 1 and mode 2) is available in all screen formats
- Alarm features include one contact closure and TTL/CMOS -sensitive alarm input for each camera, alarm hold input and alarm output. Alarm input polarity is selectable
- Alarm history log for 256 alarm records
- Daylight savings function
- Remote control by RS-232 or RS-485
- Covert (hidden) camera display function on main, spot and VCR outputs for each camera
- Digital picture adjustment for each camera input and VCR input
- S-VHS VCR input/output and monitor output
- Limited 3-year Warranty

ULTRAK®

KX0410CN

TECHNICAL SPECIFICATIONS

KX0410CN COLOR DUPLEX MULTIPLEXER

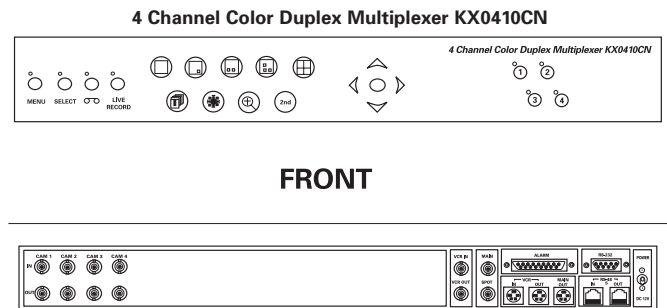|	
Video Format	NTSC
Video Level:	
Camera Inputs	1.0Vp-p, 75 Ohms
Camera Outputs	1.0Vp-p, 75 Ohms
VCR Inputs	1.0Vp-p, 75 Ohms or 1.0Vp-p, 75 Ohms(Y), 0.286Vp-p, 75 Ohms(C)
VCR Outputs	1.0Vp-p, 75 Ohms or 1.0Vp-p, 75 Ohms(Y), 0.286Vp-p, 75 Ohms(C)
Alarm:	
Alarm Input	4 inputs with individual polarity selection activated by contact closure or TTL/CMOS signal
Alarm Output	One NO and NC contact with shared common; 1.0A and 24V dc (resistive only)
Alarm Hold Time	20 seconds default, menu selectable 0 to 99 seconds
Alarm Buzzer	On/Off selectable
Display:	
Gray Shades	256 (8 bits)
Color	16 million
Full-Screen Format	720 x 480 resolution
2 x 2 Format	360 x 240 resolution
PIP Insert	240 x 160 resolution
Zoom Display	Interpolated 720 x 480 resolution
Controls:	
MENU	Select the setup menu
SELECT	Selects second function (MENU, VCR Preview) or camera selection in the multi-screen. Resets the alarm action.
VCR	Select input source (camera or VCR)
LIVE RECORD	Selects a live camera for recording
FULL	Selects full-screen display
PIP	Selects picture-in-picture display
2 x 2	Selects 2 x 2 picture display
SEQUENCE	Selects sequential camera display in full-screen or lower right window
FREEZE	Freezes the current screen display
ZOOM	Selects the 2x Zoom screen display
SET	Selects Recall or SET function or SPOT monitor selection
ARROW	Used in setup menu as DOWN, UP, RIGHT and LEFT arrow buttons
Camera 1-4	Selects full-screen display. Selects activity matrix cell enable/disable
Power Requirements	12V dc/1.5A
Dimensions	17W x 1.73H x 12.2D in. (432W x 44H x 310D mm)
Weight	6.16lb (2.8kg)
Ambient Temperature	32° - 95°F (0° - 35°C)
Ambient Humidity	10% - 90% (non-condensing)
Connections:	
Power	2.1mm pin-type female
RS-232	DB-9S female
RS-485	RJ-45 modular jack, input/output
Alarm	DB-25S female; alarm input control via contact closure or TTL/CMOS signal
Spot Out	BNC video signal output to call monitor
Main Out	BNC or Y/C video signal output to main monitor
VCR In	BNC or Y/C video signal input from VCR
VCR Out	BNC or Y/C video signal output to VCR
Camera In (1-4)	BNC composite video input from cameras
Camera Out (1-4)	BNC with switch for changing input impedance automatically, composite video output from camera (passive loop through)

RECOMMENDED CAMERAS:

KC5500CN	1/3" CCD, 330 TVL, 0.8 lux, DSP color camera with BLC, 12/24V switchable power, and C/CS/backfocus cam
KC7500CN	1/3" CCD, 470 TVL, 0.9 lux, DSP color camera with BLC, 12/24V switchable power, and C/CS/backfocus cam

RECOMMENDED MONITORS:

KM1400CN	14" High perf. multi-standard color monitor with OSD
KM1450CN	14" General purpose color monitor
KM1500CN	15" High perf. multi-standard color monitor with OSD
KM1900CN	19" High perf. multi-standard color monitor with OSD
KM2100CN	21" High perf. multi-standard color monitor with OSD

RECOMMENDED VIDEO RECORDERS:

VRE6008N	8-hour event recorder
KR7496U	24-hour virtual real-time/96-hour high-density recorder with time date search
KR7168U	24-hour virtual real-time/168-hour high-density recorder with time date search

4 Channel Color Duplex Multiplexer KX0410CN

FRONT

BACK

PHYSICAL CHARACTERISTICS:
Dimensions: 432 W x 44H x 310D mm (17W x 1.73H x 12.2D in.)
Weight: 2.8kg

Conversion: 1" = 25.4mm
Measurement conversions are approximate

Design and specifications subject to change without notice.

Ultrak Worldwide Support Center:

1301 Waters Ridge Drive
Lewisville, TX   75057
(800) 796-2288   (972) 353-6500
Fax (972) 353-6670

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