

IRISTEXT 4000 & IRISTEXT Mark / Mark+ SPECIFICATIONS

1.0 - MAIN UNIT

- High performance graphic processor, 32 bits internal data bus and 16 bits external
- Internal communication between video 1 and video 2 at 13 Mbits/sec (optional for I-4000 only)
- 512K RAM (expandable to 2 Mb) protected from power failures with replaceable lithium battery with a typical protection of over 300 days
- 1024K FLASH re programmable ROM software allowing remote software upgrade (I-4000-Se, S2, Sd, We, I-Mk-II+, III+ and IV+ only), 1024K EPROM for I-4000-LE, I-Mk-II, III and IV
- 1024K EPROM for permanent fonts and boot code (I-4000-Se, S2, Sd, We or I-Mk-II, III, IV, V, and all I-Mk+) or software (I-4000-Le or I-Mk-I)
- All the EPROM's and RAMS mounted on IC sockets for easy update
- Real time clock with lithium battery protection
- Reset button (I-4000 only)
- Audible alarm
- 3 (I-4000) or 1 (Mark/Mark+) red warning LED: RESET (I-4000 only), WATCHDOG, KEYBOARD (I-4000 only)
- 3 green control LED: POWER, RXD & TXD COMMUNICATION

1.1 - VIDEO OUTPUTS each including:

- 1 non-interruptible NTSC composite output for EDITING
- 1 interruptible (by editing) NTSC composite output for DISPLAY (I-Mk+ and I-4000 only)
- 1 Y/C (S-video) output (optional)
- synchronization generator independent from the graphic processor in conformity to the RS-170A, NTSC

amplitude in 75 ohms : 1 volt (peak to peak)
 coupling : DC
 interlace : 2:1
 total number of scan lines : 525
 number of visible lines : 484
 number of pixel per line : 792
 number of colors per line : 16
 total number of colors : 4096
 pixel resolution : 66 nS
 color subcarrier frequency : 3,579,545 Hz adjustable
 residual color subcarrier : <1 IRE
 black level : 7.5 IRE \pm 2.5 IRE
 blanking amplitude : 40 IRE adjustable
 color burst amplitude : 40 IRE adjustable

1.2 - RS-232 PORT:

- DB9 connector
- RS-232 interface compatible with a modem (with DB9 to DB25 adapter)
- TXD (pin 3), RXD (2), DTR (4), DCD (1) and GND (5)

1.3 - GPI-GPO PORT: (I-4000-Se, S2, Sd and We only)

- DB9 connector (GPO pin 6, GPI pin 8)
- Voltage GPO=1 (Active) 0.3 Volts (I=5 mA)
- Voltage GPO=0 (Inactive) open circuit (high impedance) 30 Volt max.
- Max. Current = 150 mA
- Status after hardware reset = Inactive
- The GPI and GPO signals are used to synchronize IRISTEXT pages scheduling with external equipment

1.4 - KEYBOARD PORT

- 5 pin DIN connector

- Synchronous serial interface, 8 bits bi-directional, 2 wires
- PC-AT compatible keyboard, scan code set No.: 3
- Communication protocol: mode 2 (AT)
- +5 V power supply protected with a .5 Amp fuse,

1.5 - KEYBOARD (I-4000-Le, Se, S2 and I-Mk-I, II, and II+ only)

- Bilingual keyboard (according to federal government standards)
- 15 function keys with specific function template
- 3 green light indicators for CAPS LOCK, DISPLAY and ON AIR
- +5 V power supply .35 mA max.
- Switch reliability - 30 million operations
- Actuation force : 1.8 oz (58 gr)
- Dimensions : 18.7" x 8.0" x 1.7" (47.5 x 20.3 x 4.2 cm)

1.6 - POWER SUPPLY

- 120 volts AC nominal (limits 90 - 265 Volts) 60 Hz
- .2 Amps nominal .9 Amp Max (I-4000)
- 1 amp fuse - 3AG slow blow (I-4000)
- Detachable IEC 320 power cord
- Lithium battery, 3V type CR2025 or CR2032
- "Desktop" power supply tied to chassis with 39" long cable (Mark) .8 amp

1.7 - DIMENSIONS I-4000

- Mountable in a 19" standard rack with I-RACK option
- height 2 U

Height without rubber feet : 3.5" (8.9 cm)
 Height with rubber feet : 3.8" (9.7 cm)
 Width : 16.7" (42.5 cm)
 Depth : 16.0" (40.6 cm)
 Net weight : 8.0 lb (3.6 kg) (without keyboard)
 Shipping weight : 16 lb (7 kg)
 Shipping size : 23.25" x 20.5" x 9.5" (59 x 52 x 24 cm)

DIMENSIONS Mark/Mark+

Mark/Mark+	Chassis	Power supply
total height	: 3.0" (7.6 cm)	1.7" max. (4.3 cm)
width	: 5.3" (13.5 cm)	3.4" max. (8.6 cm)
depth with connectors	: 15.5" (39.4 cm)	6.5" max. (16.5 cm)
weight without keyboard	: 5.5 lbs (2.5 kg)	
shipping weight	: 16 lbs (7.3 kg) max	
shipping size	: 22" x 10" x 10" (55 cm x 25 cm x 25 cm)	

2.0 - OPTIONS

2.1 - I-TEMP OPTION: DISPLAY OF LOCAL TEMPERATURE

- F type connector allowing the use RG-59 cable
- Current type probe giving an exact reading regardless of cable length
- Celsius or Fahrenheit reading: from -50 °C to +50 °C $\pm 1^\circ$

2.2 - I-GNLK OPTION: KEYING (For all I-4000 models, included in Tellimage, Mk-V and Mk-V+)

2.2.1 FUNCTIONS:

- GENLOCK (sync. and color) on a video source
- Downstream or upstream keying
- Semi-transparent text or background (downstream keying)

- Total transparency of any color of the image
- Transparency function automatically detected by IRISTEXT
- Video input signal automatically detected

2.2.2 VIDEO INPUT:

- 4 pin mini-DIN connector with BNC adapter cable
- Composite or S-VHS (Y/C components) auto-selected
- Termination selection: 75 ohms or hi-z
- 500 KHz sync. separation filter selectable for "GENLOCK" with a VCR

2.2.3 VIDEO OUTPUT:

- 4 pin mini-DIN connector with BNC adaptation cable
- Composite or S-VHS (Y/C components) auto-selectable
- Differential gain < .2 db
- Differential phase < 1 degree
- Frequency response: ± 3 dB (.5 Mhz to 4.2 Mhz)
- Transparent signal sync. (ext. sync.) or regenerated (int.)
- Residual sub carrier (ext. sync.) < 1 IRE
- Input-output delay (ext. sync.) < 50 nS
- Adjustable horizontal phase (int. sync.): ± 4 μ S
- Adjustable color phase: 360 degrees
- Adjustable semi-transparency level

2.2.4 KEY OUTPUT:

- With sync. without set up or color burst
- 1 Vpp (75 ohms)
- Polarization selection (positive or negative)
- Adjustable video output delay: ± 130 nS

2.3 - SECOND CHANNEL OPTIONS (I-4000 only, included I-4000-S2)

The electrical characteristics of this second video channel are identical to those of video 1 (see 1.1 above)

2.3.1 I-VIDL-Le or Se OPTION: (available for I-4000-Le or Se)

- Second video channel reserved to the display without interruption. The off-line editing is done on the first channel which cannot display.

2.3.2 I-VIDT-Se OPTION: (available for I-4000-Se,Sd or We)

- Second video channel with full off-line editing as I-VIDL-Se above but able to display a second set of pages once editing is completed

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