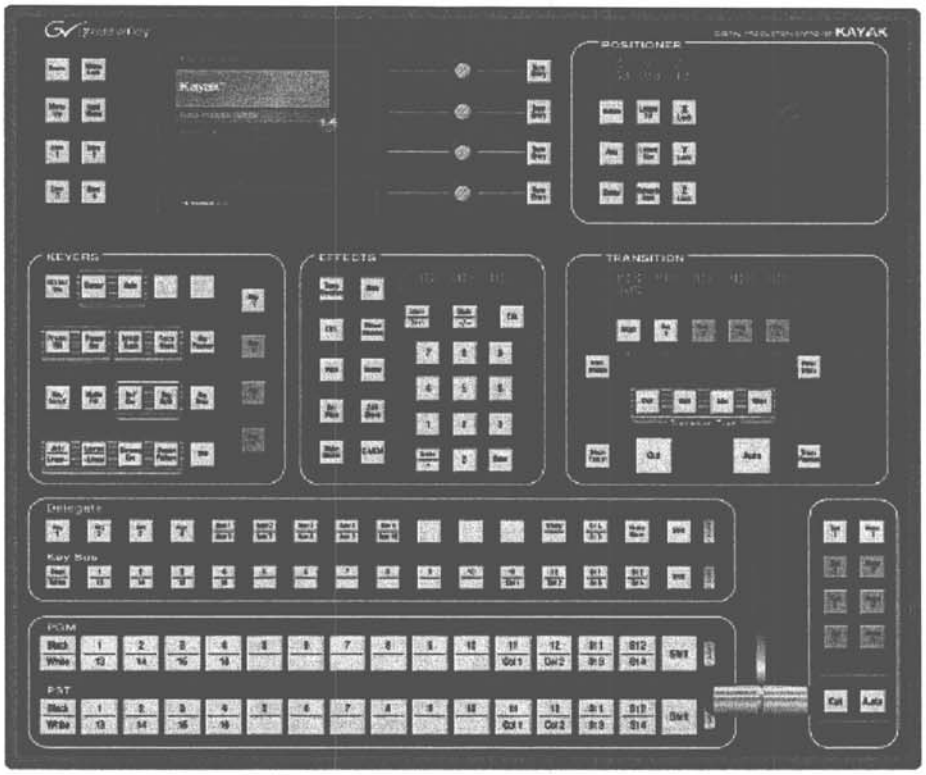
DOCUMENT A

Kayak DD
DIGITAL PRODUCTION SWITCHER



Caractéristiques résumées

- Mélangeur digital commutable en 525 ou 625 lignes.
- Sortie digitale 10 bits, 4 :2 :2 en entrées, sorties et video processing.
- Compact, taille de l'unité centrale: 2U.
- Faible consommation en énergie.
- Ecran tactile.
- 16 entrées SDI.
- 5 sorties de M/E (2 PGM, 1 Preview, 1 Clean et 1 CleanPVW).
- 10 AUX en sorties
- Ram Recorder intégrant des images fixes et des clips courts. (OPTION).
- 4 keys , chacun avec linear, luminance key et fonctions de Chroma Key (OPTION)
- Correction colorimétrique en Option.
- 4 canaux de générateur d'effets spéciaux. (OPTION).

DOCUMENT B1

Codeur numérique hertzien: extrait de la notice

CARRY-CODER
User Manual

CARRY-CODER overview

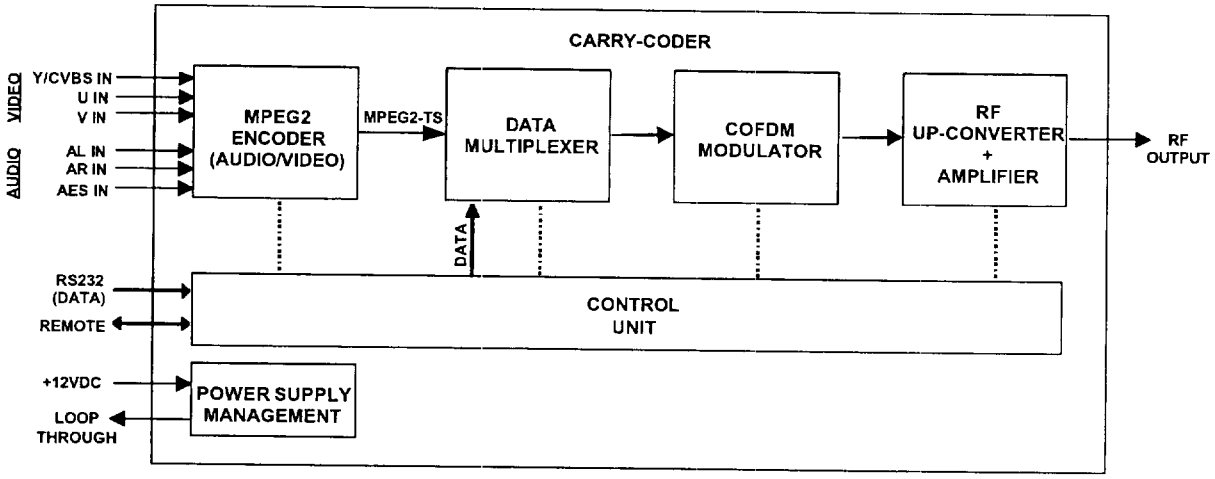
The CARRY-CODER is a portable device that performs wireless digital transmission of audio, video and data.

It can be installed in a specific backpack or plugged directly onto the back of most of professional video cameras and camcorders.

Specific cables are available to adapt on various video camera brands (Sony, Philips, Panasonic, Hitachi, etc...).

Mechanical adapters are also available to adapt on various battery types (Sony, Anton Bauer, Pag, etc..).

The following block diagram gives an overview of CARRY-CODER architecture :

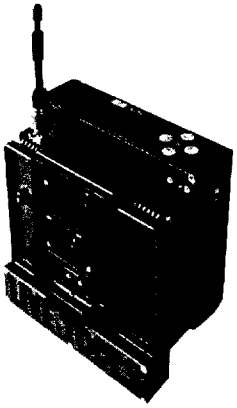


The CARRY-CODER mainly includes :

- An MPEG2 encoder (1 video channel + 2 audio channels) compliant to ISO/IEC 13818 (MP@ML).
- A data multiplexer (proprietary format).
- A COFDM digital modulator (2K sub-carriers) compliant to ETS 300 744 (DVB-T standard).
- An RF up-converter and amplifier providing up to 1W output power.
- A control unit offering user-friendly interface.

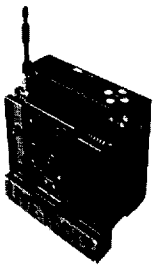
The CARRY-CODER offers the following input/output interfaces :

- 1 composite video input (CVBS)
- 1 component video input (YUV)
- 2 analog audio line inputs (L+R)
- 1 digital audio input (AES)
- 1 RS232 data input (for user applications)
- 1 remote control port
- 1 RF output
- 1 power supply input (+12VDC nominal)
- 1 power supply loop-through output



DOCUMENT B2

Codeur numérique hertzien: extrait de la notice



7. TECHNICAL CHARACTERISTICS

RF output power (adjustable)	50 mW, 100 mW, 250 mW, 1W
Frequency range	1.99-2.11 GHz (model 1) 2.30-2.70 GHz (model 2) (some early units are 2.40-2.70 GHz or 2.50-2.70 GHz)
Frequency step	250 kHz
Channel spacing	8 MHz
Useful channel bandwidth	7.61 MHz
Total number of sub-carriers	1705 (so called 2K mode)
Number of useful sub-carriers	1512
Sub-carriers spacing	4.464 kHz
Useful part of symbol	224 us
Guard interval of symbol (adjustable)	1/4 (56us), 1/8 (28us), 1/16 (14us) or 1/32 (7 us)
Modulation of sub-carriers (adjustable)	QPSK, 16QAM, 64QAM
Error correction (adjustable)	Viterbi (code rate : 1/2, 2/3, 3/4, 5/6 or 7/8) + Reed-Solomon (188, 204, t=8)
Video encoding bitrate (adjustable)	2 to 15 Mbps (full MPEG2 range for MP@ML profile)
Audio encoding bitrate (adjustable)	32, 64, 128 or 192 kbps (per channel)
RS232 data bitrate (adjustable)	9600, 4800 or 1200 bauds
Power supply voltage	+10.8 to +16.8 VDC
Power consumption	About 40 W (for 1W output power) About 30 W (for 100mW output power)

The following table gives the RF power (real average COFDM power) corresponding to each choice and the resulting power supply consumption :

Choice	RF Power	Power Consumption
OFF	Muted	Low (about 30 W)
LOW	50 mW	Low (about 30 W)
MID	100 mW	Low (about 30 W)
HIGH	250 mW	Normal (about 40 W)
MAX	1 W	Normal (about 40 W)

DOCUMENT C

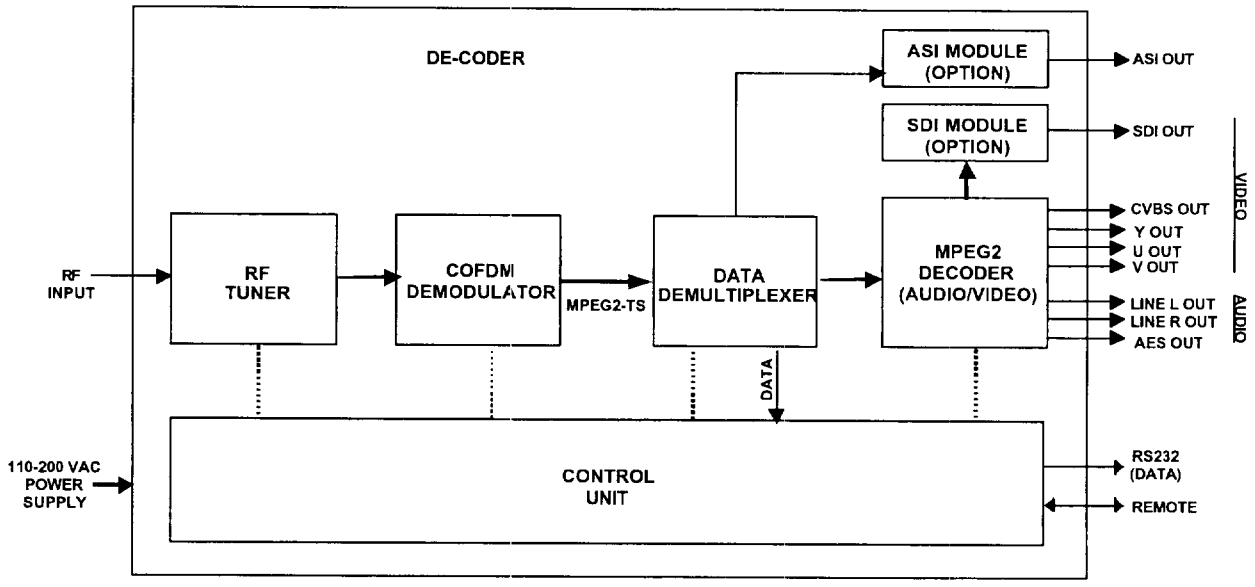
Décodeur numérique hertzien: extrait de la notice

DE-CODER overview

The DE-CODER is a compact 19" (1RU) device that performs wireless digital transmission of audio, video and data.

Due to its standard package it can be easily installed in TV studios and news vans.

The following block diagram gives an overview of DE-CODER architecture :

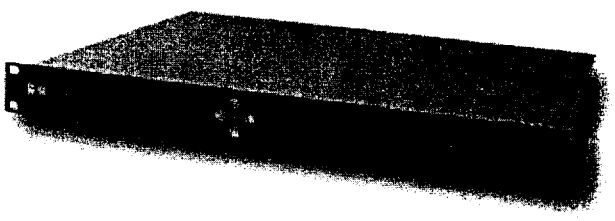


The DE-CODER mainly includes :

- An RF Tuner.
- A COFDM digital demodulator (2K sub-carriers) compliant to ETS 300 744 (DVB-T standard).
- A data demultiplexer (proprietary format).
- An MPEG2 decoder (1 video channel + 2 audio channels) compliant to ISO/IEC 13818 (MP@ML).
- A control unit offering user-friendly interface.

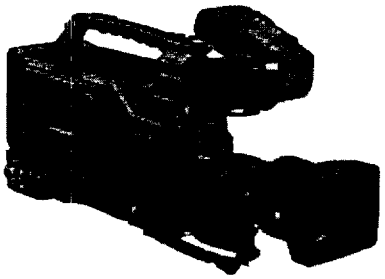
The DE-CODER offers the following input/output interfaces :

- 1 RF input
- 1 MPEG2 transport stream output (optional)
- 1 digital video output (optional)
- 1 composite video output (CVBS)
- 1 component video output (YUV)
- 2 analog audio line outputs (L+R)
- 1 digital audio output (AES)
- 1 RS232 data output (for user applications)
- 1 remote control port
- 1 power supply input (110-220 VAC)



DOCUMENT D

Camescopes DSR 570 WSP ET DSR 390 P: extrait des spécifications



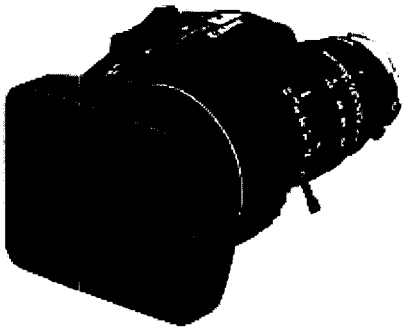
	DSR-570WSP	DSR-390P
General		
Power requirements	DC 12 V (11 to 17 V)	
Power consumption	26.1 W (with VF), 24 W (without VF)	22.1 W (with VF), 20 W (without VF)
Operating temperature	0 °C to 40 °C (32 °F to 104 °F)	
Storage temperature	-20 °C to 60 °C (-4 °F to 140 °F)	
Tape speed	28.221 mm/s	
Recording/Playback time		
Standard size	184 min.	
Mini size	40 min.	
Fast forward/Rewind time		
Standard size	Approx. 12 min.	
Mini size	Approx. 3 min.	
Continuous recording time	Approx. 70 min. with BP-L40A, 90 min. with BP-M50, 140 min. with BP-IL75, 200 min with BP-M100	Approx. 80 min. with BP-L40A, 100 min. with BP-M50, 180 min. with BP-IL75, 230 min. with BP-M100
Weight	6.4 kg (14 lb 20 oz) (with VF, microphone, lens, battery and tape)	6.2 kg (13 lb 10 oz) (with VF, microphone, lens, battery and tape)
Dimensions (W x H x D)	121 x 192 x 280 mm (4 7/8 x 7 5/8 x 11 1/8 inches) (without projections) 242 x 247 x 536 mm (9 5/8 x 9 3/4 x 21 1/8 inches) (with projections)	121 x 192 x 270 mm (4 7/8 x 7 5/8 x 10 3/4 inches) (without projections) 242 x 247 x 536 mm (9 5/8 x 9 3/4 x 21 1/8 inches) (with projections)
Camera Section		
Image device	3-chip 2/3-inch type, Interline-Transfer CCD	3-chip 1/2-inch type, Interline-Transfer CCD
Optics	F1.4 medium index prism system	
Effective picture elements	980 (H) x 582 (V)	752 (H) x 582 (V)
Total picture elements	1038 (H) x 594 (V)	795 (H) x 596 (V)
Sensing area	9.6 mm x 5.4 mm	6.4 mm x 4.8 mm
Built-in filters	1: 3200 K 2: 5600 K+1/8 ND 3: 5600 K 4: 5600 K+1/64 ND	1: 3200 K 2: 5600 K+1/8 ND 3: 5600 K 4: 5600 K+1/64 ND
Lens mount	Sony 2/3-inch type bayonet mount	Sony 1/2-inch type bayonet mount
Signal system	PAL colour system	
Scanning system	2:1 interlaced, 625 lines, 50 fields/s	
Horizontal frequency	15.625 kHz	
Vertical frequency	50 Hz	
Sync system	Internal Sync, GENLOCK IN/VIDEO IN (VBS or BS), External Sync, VTR/CCU IN	
Horizontal resolution	16:9 mode: 800 TV lines (center) 4:3 mode: 850 TV lines (center)	800 TV lines (center)
Vertical resolution	480 TV lines (without EVS), 530 TV lines (with EVS)	
Minimum illumination	0.25 lx with F1.4, Hyper gain (42 dB) 0.4 lx with F1.8, Hyper gain (42 dB)	0.4 lx with F1.4, Hyper gain (36 dB) 0.6 lx with F1.8, Hyper gain (36 dB)
Sensitivity	F11 at 2000 lx (3200 K, 89.9% reflectance) (typical)	F13 at 2000 lx (3200 K, 89.9% reflectance) (typical)
Gain selection	-3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18 dB, 18 dB+DPR*1, 24 dB, 24 dB+DPR, Hyper gain (36 dB or 42 dB selectable)	-3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18 dB, 18 dB+DPR*1, 24 dB, 24 dB+DPR, Hyper gain (36 dB)
Shutter speed selection	OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 (s)	
S/N ratio	61 dB (typical)	62 dB (typical)
Registration	0.05% (all zones, without lens)	
Geometric distortion	Below measurable level	

DOCUMENT E

Extraits de documents techniques Canon

YJ19x9B KRS

Hyper Standard Pro-Video



Lens		YJ19x9B KRS
Application		2/3"Semi-Professional
Zoom Ratio		19x
Built-in Extender		No
Range of Focal Length		9~171mm
Maximum Relative Aperture		1:1.8 at 9~114mm 1:2.7 at 171mm
Angular Field of View	4:3 Aspect Ratio (8.8 x 6.6mm)	52.1° x 40.3° at 9mm 2.97° x 2.22° at 171mm
Minimum Object Distance (M.O.D.)		0.9m (50mm with Macro)
Object Dimensions at M.O.D.	4:3 Aspect Ratio (8.8 x 6.6mm)	78.9cm x 59.2cm at 9mm 4.3cm x 3.2cm at 171mm
Macro		Yes
Size (W x H x L)		139.8 x 99.5 x 175.5mm
Mass (Approx.)		1.33kg (2.93lbp)

DOCUMENT F

Extraits de documents techniques Canon

YH19x6.7 IRS

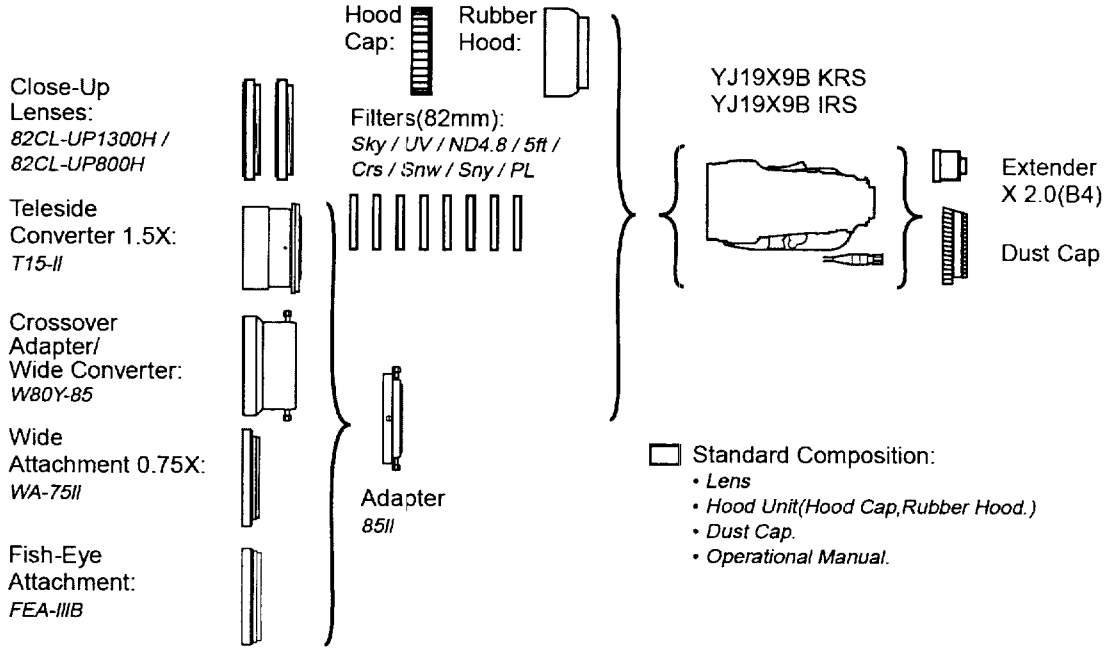
Standard Pro-Video

Lens		YH19x6.7 IRS
Application		1/2"Semi-Professional
Zoom Ratio		19x
Built-in Extender		2.0x
Range of Focal Length		6.7~127mm
(With extender)		13.4~254mm (2.0x)
Maximum Relative Aperture		1:1.4 at 6.7~89mm
(With Extender)		1:2.0 at 127mm
		1:2.8 at 13.4~178mm (2.0x)
		1:4.0 at 254mm (2.0x)
		51.1° x 39.4° at 6.7mm
Angular Field of View	4:3 Aspect Ratio	2.89° x 2.17° at 127mm
(With Extender)	(6.4 x 4.8mm)	26.9° x 20.3° at 13.4mm (2.0x)
		1.44° x 1.08° at 254mm (2.0x)
Minimum Object Distance (M.O.D.)		0.9m (50mm with Macro)
		77.2cm x 57.9cm at 6.7mm
Object Dimensions at M.O.D.	4:3 Aspect Ratio	4.2cm x 3.2cm at 127mm
(With Extender)	(6.4 x 4.8mm)	38.6cm x 29.0cm at 13.4mm (2.0x)
		2.1cm x 1.6cm at 254mm (2.0x)
Macro		Yes
Size (W x H x L)		139.8mm x 99.5mm x 199.5mm
Mass (Approx.)		1.53 kg (3.37lbs)

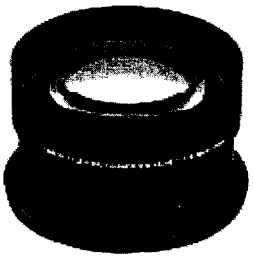
DOCUMENT G

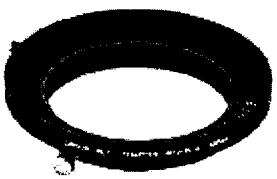
Extraits de documents techniques : compléments optiques pour objectif YJ 19X9

OPTICAL ACCESSORIES



Tele-side Converter *T15-II*





- Focal length is shifted to the telephoto side by a factor of 1.5x.
- F No. of the original lens is not affected.
- Only the telephoto side of the lens can be used, the picture corners are eclipsed at wide angle.
- The minimum object distance becomes 2.25 times that of the origilal lens.

J21ax7.8B	1.8m	f:60mm
J17ax7.7B	1.35m	f:60mm
YJ19x9B	2.00m	f:80mm
HJ16x8B	1.6m	f:60mm
HJ17ex7.7B	1.7m	f:60mm
HJ21x7.8B	1.9m	f:60mm
HJ21ex7.8B	1.9m	f:60mm

DOCUMENT H

Extraits de documents techniques : filtres correcteurs de lumière

valeur de correction en Mired des filtres de conversion et des filtres correcteurs de lumière

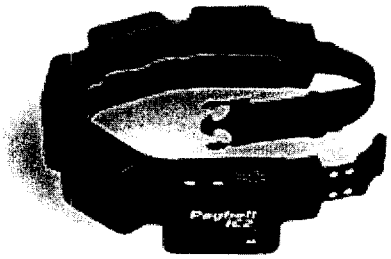
numéro du filtre	intervalle en Mired	augmentation de l'ouverture de diaphragme
82	— 10	1/3
82 A	— 18	1/3
82 B	— 32	2/3
82 C	— 45	2/3
82 + 82 C	— 55	1
82 A + 82 C	— 62	1
82 B + 82 C	— 77	1 1/3
82 C + 82 C	— 89	1 1/3
80 D	— 56	1
80 C	— 81	1
80 B	— 112	2
80 A	— 131	2
81	10	1/3
81 A	18	1/3
81 B	27	1/3
81 C	35	1/3
81 D	42	2/3
81 EF	53	2/3
85 C	81	1/3
85	112	2/3
85 B	131	2/3

DOCUMENT I

Extraits de documents techniques : ceintures de batteries PAG

PAGBELT IC2

Battery belts with integral overnight chargers



Pagbelt IC2

	Model		Voltage	Capacity	Weight
	9287	Pagbelt IC2	12V	5Ah	2.4kg
	9288	Pagbelt IC2	13.2V	5Ah	2.5kg
*	**9290**	Pagbelt IC2	24V	5Ah	3.8kg
*	**9291**	Pagbelt IC2	30V	5Ah	4.9kg
	9292	Pagbelt IC2	12V	7Ah	3.4kg
	9293	Pagbelt IC2	13.2V	7Ah	3.6kg
	9294	Pagbelt IC2	14.4V	7Ah	3.6kg
*	**9295**	Pagbelt IC2	24V	7Ah	5.0kg
*	**9296**	Pagbelt IC2	30V	7Ah	5.6kg
*	**9297**	Pagbelt IC2	12V	10Ah	4.9kg
*	**9298**	Pagbelt IC2	13.2V	10Ah	5.3kg
	9368	Pagbelt NMH	13.2V	7.5Ah	2.8kg

*comes with shoulder harness

Integral Overnight Charger
Pagbelt IC2 incorporates a fully isolated, fourteen hour, integral overnight charger, which is able to accept a Widerange input supply, from 100V to 250V AC, 50Hz to 60Hz, enabling worldwide operation.

Discharge Protection
Pagbelts feature an automatic low voltage cut-out facility to prevent cell damage which would otherwise result when over discharge situations occur.

Output Protection
All Pagbelts have two XLR-4 output connectors and a 10A fuse to protect the battery belt from accidental short circuit

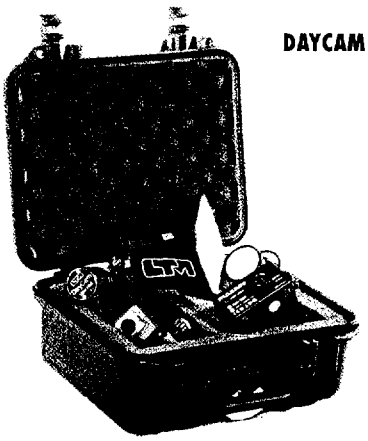
Superior Cells
Pagbelts contain specially selected cells of superior quality, providing excellent voltage hold-up characteristics and, therefore, extended run-time.

DOCUMENT J

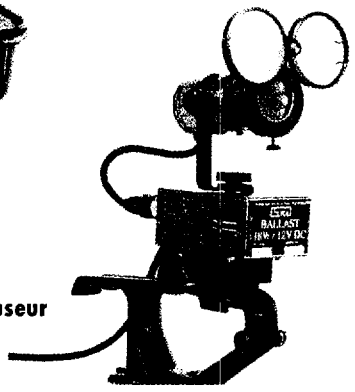
Extraits de documents techniques : mini torche HMI (LTM)

Daycam 18W

La DAYCAM 18W est conçue pour les professionnels du reportage film, vidéo/photo, classique ou numérique.
D'un poids minimum, la plus petite torche HMI du monde à 6000° K délivre 2100 Lux à 1 m, soit quatre fois plus qu'un halogène de même puissance.
La DAYCAM 18W est la seule torche HMI de petite puissance avec un amorceur intégré dans la tête ; ceci lui confère une totale sécurité par rapport à la surtension nécessaire à l'amorçage de la lampe, ainsi que la possibilité pour l'utilisateur de dissocier en toute sécurité la tête du ballast par l'utilisation du cordon prolongateur A 925.
Sa faible consommation électrique offre une grande autonomie : 1 heure sur batterie caméra et jusqu'à 4 heures sur batterie ceinture 12V. 7Ah.
Sa pince de fixation l'adapte à tous les types de Camescope.
Divers accessoires permettent l'utilisation de 1 à 3 DAYCAM 18W pour les tournages voiture (branchées directement sur l'allume-cigare).
Des kits complets de 1 ou plusieurs DAYCAM 18W, conditionnés en valise, sont également disponibles.



DAYCAM 18 W en valise F 1200



DAYCAM 18 W
avec accessoires CTO + diffuseur

CARACTERISTIQUES TECHNIQUES

- Lampe 18 W 6000° K à réflecteur dichroïque
- Verre de protection UV satiné
- Carrosserie aluminium finition peinture époxy
- Jeu de 2 filtres (lentille CTO + diffuseur)
- Fixation par bouton molleté, pas de 1/4" mâle
- Fixation de la tête par bouton molleté et du ballast par pince

TETE ET ACCESSOIRES DAYCAM 18 W

• Tête DAYCAM 18 W avec ballast électronique	**4118A**
• Lampe 18 W "lumière du jour" à réflecteur dichroïque	**809055**
• Accessoire CTO 3200° K + diffuseur	**A 923**
• Câble prolongateur de tête à ballast (1 m)	**A 925**
• Chimera "Mini Lightbank"	**C1701**
• Câble prolongateur d'alimentation (7 m)	**A 903**
• Alimentation 230 V AC / 12 V DC	**A 904**
• Valise de transport (305 x 232 x 130 mm)	**F1400**
• Valise de transport (239 x 185 x 100 mm)	**F1200**
• Batterie ceinture 12V 7Ah LTM (câble et chargeur inclus)	**A 784**

ACCESSOIRES POUR BRANCHEMENT VOITURE

• Bras flexible	**300237HD**
• Ventouse Ø 150 mm	**300241**
• Câble d'alimentation batterie 12 V	**306HA-23170**
• Câble d'alimentation allume cigare	**306HA-23240**
• Câble d'alimentation en "Y" allume cigare	**306HA-23165**
• Testeur de batterie	**306HA-231380**

CARACTERISTIQUES TECHNIQUES

- Tête (mm) H 45 mm x L 85 mm x 67 W - Poids : 160 g
- Ballast électronique H 65 mm x L 90 mm x 65 W - Poids : 300 g
- Voltage 9 à 15 V DC
- Consommation 2,5 A à 12 V
- Lampe
  - ouverture : 50 mm
  - température de couleur : 6000° K
  - durée de vie : 800 heures

CARACTERISTIQUES PHOTOMETRIQUES

Distance	Diamètre de faisceau (Angle = 28°)	Spot	Verre dépoli	CTO
0,5 m	0,25 m	8400 lux	4000 lux	3610 lux
1 m	0,50 m	2100 lux	1000 lux	900 lux
2 m	1,00 m	525 lux	250 lux	225 lux
3 m	1,50 m	235 lux	112 lux	100 lux