

# CCNS4™ Computer Controlled Navigation System - 4th generation

## System Specifications:



Image showing the Central Computer Unit (CCU), the Command & Display Unit (CDU) and the GPS antenna.

## Central Computer Unit [CCU]:

SPECIFICATIONS CCU	
Dimensions:	
Length	262 mm
Width	208 mm
Height	132 mm
Weight	3.5 kg
Power consumption	60 W @ 20 - 32 VDC
Operating temperature	-10° C to +40° C
Storage temperature	-20° C to +70° C
Data storage	PC card, 32 / 64 MB
Computer	Internal 16-channel L1 GPS receiver Includes shock-absorbing tray for mounting
Options	- Combination with the precise positioning & attitude determination system <i>AEROcontrol</i> or the Airborne GPS solution (ext. receiver) - Rack mounted solutions for the <i>CCNS4</i> and <i>AEROcontrol</i>

SOFTWARE	
Corresponding software	<i>IGIplan</i> flight planning software package incl. digital terrain model (DTM) application

## Comand & Display Unit [CDU]:

SPECIFICATIONS CDU:	
Dimensions:	
Length	35 mm
Width	159 mm
Height	105 mm
Display area	103 (w) x 74 (h) mm
Display diagonal	5 inch (viewable)
Weight	0.57 kg
Power	20 W @ 20 - 30 VDC
Operating temperature	0° C to +60° C
Storage temperature	-30° C to +80° C
Humidity	max. 85% RH
Lamp life-time	10 000 h (@ temp. = 25° C)
Typical viewing angle	horizontal 55° top 15° bottom 35°
Typical brightness	320 cd / m <sup>2</sup>
Typical contrast ratio	120:1



# CCNS4™ - Camera, Mount & GPS Interface

OVERVIEW OF SUPPORTED FUNCTIONS						
	DigiCAM	DiMAC <sup>8</sup>	UltraCam <sup>8</sup>	DMC <sup>8</sup>	AIC	RMK-A
exposure release	●	●	●	●	●	●
exposure signal	●				●	●
forward motion compensation (FMC)		●	●	●		●
drift setting	● <sup>3,5,7</sup>	● <sup>3,5,7</sup>	● <sup>3,5,7</sup>	● <sup>3,5,7</sup>		● <sup>6,7</sup>
data annotation on film						
online status	●		●	●		
serial exposure						●
image number synchronization	●	●	●	●		●
"north arrow"						

OVERVIEW OF SUPPORTED FUNCTIONS						
	LMK1000	LMK2000	RC10	RC20	RC30	RMK-TOP
exposure release	●	●	●	●	●	●
exposure signal	●	●	● <sup>option</sup>	●	●	
forward motion compensation (FMC)	●	●		●	●	●
drift setting	● <sup>1,2,3</sup>	● <sup>1,2,3</sup>		● <sup>4,5</sup>	● <sup>4,5</sup>	● <sup>6,7</sup>
data annotation on film	●	●		● <sup>EDI</sup>	●	●
online status		●				●
serial exposure		●		●	●	●
image number synchronization	●	●		●	●	●
"north arrow"	●	●				●

Caption:

1: M1000      2: SM2000      3: GSM3000      4: PAV20  
 5: PAV30      6: AS2      7: T-AS      8: using DCI      EDI: external data interface

OVERVIEW OF AVAILABLE GPS RECEIVERS			
External Input:	IGI <i>LiteMapper</i> Optech 501SA Baro-Altitude (Serializer-Format) Air Data (RMI-Format)	External Output:	Position Message Event Message NMEA Output (GGA, VTG)
External GPS-Receiver:	Trimble TNL1000, TNL2000, TNL3000, TN4000, Ashtech P12, Z12, Z-Xtreme, Sercel Model 103, IGI / Z-fly All receiver with NMEA GGA/VTG output.		

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