



HOKA ELECTRONIC

HF Data Communications Consultants

Flessingsterrein 13 9665 BZ Oude Pekela - The Netherlands
Voice: +31 597 675040 <http://www.hoka.net> e-mail: hoka@hoka.net

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Technical Specifications – November 2013

HOKA ELECTRONIC (NL)
Technical Communications
Flessingsterrein 13
NL-9665 BZ Oude Pekela
The Netherlands
Phone +31 597-675040

VAT Ident No. NL091238456B01
Chamber of Commerce 50522884 Groningen

Bankers: ABN AMRO Nijverdal
Acc.No 57.45.25.033
IBAN Code NL77ABNA0574525033
Swift Code ABN: ABNANL2A

Protocols

System	Range	Demod.	Also known as	Includes	Menu	Common type of output
SITOR	HF	FSK	Sitor A-B ARQ 625 FEC 625 Amtor	auto detects Mode A and Mode B	Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted
Baudot	HF	FSK	ITA-2 RTTY	BR 6028 VFT BARRIE / 6028 USA 7 Modem R39 Demodulator SYNOP DECODER	Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Message Coded Encrypted
Baudot Synchr	HF	FSK			Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted
BF6 Baudot F7B	HF	4 FSK	Baudot F7B ITA-2 Twin 2 channel ITA-2 RTTY Baudot Twinplex		Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted
CW	HF	OOK	Morse		Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted
CW-F1B	HF	FSK	FSK CW		Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted
ASCII	HF	FSK	ITA5 / IRA		Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted
Packet AX 25	HF	FSK	Packet Radio Packet HF Packet VHF	HF mode 300 Baud, VHF mode 1200 Baud	Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted DATA Transparent Modem
Pactor I	HF	FSK		Pactor 1 - 8, ICRC IFRC HAM MIL Pactor SELCALL up to 6 chars	Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted DATA Transparent Modem
Pactor I FEC	HF	FSK			Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted DATA Transparent Modem
Pactor I Special	HF	FSK		Pactor 1 - 8, ICRC IFRC HAM MIL Pactor SELCALL up to 6 chars	Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted / DATA Transparent Modem
Pactor II	HF	DBPSK DQPSK 8-DPSK 16-DPSK		all possible CRC variants	Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted /DATA /EMAIL Transparent Modem
Pactor II FEC	HF	DBPSK DQPSK 8-DPSK 16-DPSK		all possible CRC variants	Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted /DATA /EMAIL Transparent Modem
Pactor III HOKA (options HOKA)	HF	DBPSK DQPSK 8-DPSK 16-DPSK		all possible CRC variants	Common Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted /DATA /EMAIL Transparent Modem
Autospec	HF	FSK	Spread	AUTOSPEC with Spread 11, Spread 21, Spread 51	Common Mode	Clear / 5 Fgs/Ltrs Encrypted
FAX FM	HF	FSK	FAX / Facsimile / MeteoFAX		Common Mode	Clear / Encrypted
FAX AM	VHF/UHF	FSK	NOAA / Meteosat		Common Mode	Clear / Encrypted
SSTV	HF	FSK	SSTV / Slow Scan Television		Common Mode	Clear
PSK-31	HF	DBPSK DQPSK			Common Mode	Clear / Encrypted
HELL	HF	FSK	HELLSCREIBER / HELL		Common Mode	Clear

System	Range	Demod.	Also known as	Includes	Menu	Common type of output
HF-Datalink	HF	M-PSK	HF Datalink / HF Acars / ARINC specification 635-2 27/02/1998		Special Mode	Clear / Message Coded
GMDSS HF	HF	FSK			Special Mode	Clear / Message Coded
NAVTEX	HF	FSK	NAVTEX	Japanese Navtex	Special Mode	Clear / Message Coded
G-TOR	HF	FSK			Special Mode	Clear Encrypted Different Mapping table DATA / EMAIL Transparent Modem
TWINPLEX	HF	FSK	TWINPLEX CCIR 476	with standard and variable shift	Special Mode	Clear 5 Fgs/Ltrs Encrypted
IRA-ARQ	HF	MFSK			Special Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted / DATA
NUM-13	HF	MFSK	SP14		Special Mode	5 Fgs/Ltrs
ANUM-13	HF	MFSK			Special Mode	5 Fgs/Ltrs
MEROD	HF	FSK	RAC ARQ / Racal ARQ		Special Mode	Clear / Message Coded
SKYFAX MSM	HF	10 parallel FSK tones	RC 5000 / Racal MSM		Special Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted / DATA
VISEL	HF	FSK	FEC 12		Special Mode	Clear / 5 Fgs/Ltrs Encrypted
EPIRB	VHF				Special Mode	Clear / Message Coded
GW DATAPLEX	HF	FSK	GW PACTOR		Special Mode	Clear / Message Coded
DGPS SC104	HF				Special Mode	Clear / Message Coded
Baudot Parity	HF	FSK	French Baudot		Special Mode	Clear Different Mapping table 5 Fgs/Ltrs / Encrypted
Pactor I/IIIII (option M)	HF	DBPSK DQPSK 8-DPSK 16-DPSK			Special Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted /DATA /EMAIL Transparent Modem
Pactor I/IIIII/IV (option M)	HF	DBPSK DQPSK 8-DPSK 16-DPSK			Special Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted /DATA /EMAIL Transparent Modem
Clover II (option M)	HF	16P4A 8P2A 8PSM QPSM BPSM 2DPS			Special Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted /DATA /EMAIL Transparent Modem
Clover 2000 (option M)	HF	16P4A 8P2A 8PSM QPSM BPSM 2DPS			Special Mode	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted /DATA /EMAIL Transparent Modem
CV 768	HF	FSK			Special Mode	Clear Different Mapping table 5 Fgs/Ltrs - Encrypted
MD 674	HF	FSK			Special Mode	Clear Different Mapping table 5 Fgs/Ltrs Encrypted
AK 10 FEC 101	HF	FSK			Special Mode	Different Mapping table 5 Fgs/Ltrs - Encrypted
RUS 200-450	HF	FSK			Special Mode	Different Mapping table 5 Fgs/Ltrs - Encrypted
44 (options HOKA)	HF	QPSK	CHN 4+4		Special Mode	Clear - 4 Fgs/Ltrs
ARQ-625 SITOR-A	HF	FSK	Sitor A ARQ 625 mode A		ARQ	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted
ARQ-E	HF		ARQ-E ARQ 1000 Duplex	ARQ N / R39 Demodulator	ARQ	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted
ARQ-S ARQ-1000	HF	FSK	ARQ-S / ARQ 1000-S Siemens ARQ 1000		ARQ	Clear / 5 Fgs/Ltrs Encrypted

System	Range	Demod.	Also known as	Includes	Menu	Common type of output
ARQ-E3	HF	FSK	ARQ-E3 / CCIR 519 Variant TDM 342 1 Channel	R39 Demodulator SYNOP DECODER	ARQ	Clear / 5 Fgs/Ltrs Encrypted
ARQ-2 TDM 242	HF	FSK		ARQ-M2-242 ARQ-M4-242	ARQ	Clear / 5 Fgs/Ltrs Encrypted
ARQ-4 TDM 342	HF	FSK	TDM 342 / ARQM-2, ARQM-4 ARQ28 / ARQ56 / CCIR 342-2	ARQ-M2-342 ARQ-M4-342 R39 Demodulator	ARQ	Clear / 5 Fgs/Ltrs Encrypted
ARQ-POL	HF	FSK	ARQ-POL POL ARQ CCIR 476 Variant		ARQ	Clear / 5 Fgs/Ltrs Encrypted
ARQ-SWED	HF	FSK	ARQ SWED / SWED ARQ / CCIR 518 Variant		ARQ	Clear / 5 Fgs/Ltrs Encrypted
ARQ-DUPLEX	HF	FSK	DUP ARQ / ARTRAC		ARQ	Clear / 5 Fgs/Ltrs Encrypted
HC-ARQ	HF	FSK	Hagelin Cripto - ARQ		ARQ	Clear / 5 Fgs/Ltrs Encrypted
RS-ARQ MERLIN ALIS 2	HF		RS ARQ II / ALIS 2 RS ARQ 240	ITA2 5 Bit ITA2 7 Bit ITA5 8 Bit	ARQ	Clear / 5 Fgs/Ltrs Encrypted / DATA
RS-ARQ ALIS	HF	FSK	RS ARQ ALIS	ITA2 5 Bit ITA2 7 Bit ITA5 8 Bit	ARQ	Clear / 5 Fgs/Ltrs Encrypted
TOR dirty	HF	FSK	FEC 625 without sync control		ARQ	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted
ARQ6-70	HF	FSK	CCIR 476 Variant		ARQ	Clear / 5 Fgs/Ltrs Encrypted
ARQ6-90/98	HF	FSK	CCIR 476 Variant		ARQ	Clear / 5 Fgs/Ltrs Different Mapping table Encrypted
FEC-B Sitor-B	HF	FSK	FEC 625 NAVTEX		FEC	Clear / 5 Fgs/Ltrs Different Mapping table Coded Encrypted
ROU-FEC	HF	FSK			FEC	Clear 5 Fgs/Ltrs Encrypted
HNG-FEC	HF	FSK			FEC	Clear 5 Fgs/Ltrs Encrypted
FEC-S	HF	FSK	FEC 1000 S		FEC	Clear / 5 Fgs/Ltrs Encrypted
FEC-A FEC100	HF	FSK	FEC-A Broadcast FEC100 A / FEC 101		FEC	Clear / 5 Fgs/Ltrs Encrypted
FEC-100 interleaved	HF	FSK	FEC-100 Variable Interleaved		FEC	Clear 5 Fgs/Ltrs Encrypted
FEC-100 raw	HF	FSK	FEC-A without synchronisation		FEC	Clear / 5 Fgs/Ltrs Encrypted
FEC-100 dirty	HF	FSK	FEC 100 Dirty without synchronisation		FEC	Clear / 5 Fgs/Ltrs Encrypted
AK10	HF	FSK			FEC	5 Fgs/Ltrs / Encrypted
AUM 13	HF	MFSK			MFSK non HAM	5 Fgs/Ltrs Encrypted
CODAN 9001/3012 (options HOKA)	HF	PSK	C16		MFSK non HAM	Clear / 5 Fgs/Ltrs Encrypted DATA/EMAIL Transparent Modem
CODAN CHIRP	HF	BPSK	Codan ALE		MFSK non HAM	Clear / Selcall Coded Message
CODAN CHIRP + DTATA (options HOKA)	HF	PSK BPSK	Codan ALE C16		MFSK non HAM	Clear / Selcall Coded Message 5 Fgs/Ltrs Encrypted /DATA /EMAIL Transparent Modem
COQUELET-8	HF	MFSK	Coq8 / Coquelet MK2 French Multitone Teleimprimeur ACEC		MFSK non HAM	Clear Different Mapping table 5 Fgs/Ltrs / Encrypted
COQUELET-13	HF	MFSK	Coq 13 / Coquelet MK1 French Multitone		MFSK non HAM	Clear Different Mapping table 5 Fgs/Ltrs / Encrypted

System	Range	Demod.	Also known as	Includes	Menu	Common type of output
COQUELET-8 FEC	HF	MFSK	COQUELET 80		MFSK non HAM	Clear Different Mapping table 5 Fgs/Ltrs / Encrypted
COQUELET-8 FEC auto	HF	MFSK			MFSK non HAM	Clear Different Mapping table 5 Fgs/Ltrs / Encrypted
COQUELET-8 auto-start	HF	MFSK			MFSK non HAM	Clear Different Mapping table 5 Fgs/Ltrs / Encrypted
CROWD-36	HF	MFSK	CIS 36 / Russian Piccolo URS Multitone / CIS 10 11 11		MFSK non HAM	Clear / 5 Fgs/Ltrs Encrypted
CROWD 36 ECC	HF	MFSK	CIS 36 / Russian Piccolo URS Multitone / CIS 10 11 11		MFSK non HAM	Clear / 5 Fgs/Ltrs Encrypted
FIRE	HF		MS5 / CIS 12		MFSK non HAM	Encrypted
MFSK Universal	HF	MFSK			MFSK non HAM	
MFSK 16	HF	MFSK	non amateur mode		MFSK non HAM	5 Fgs/Ltrs
MFSK 21-20	HF	MFSK	non amateur mode		MFSK non HAM	5 Fgs/Ltrs
MFSK 18	HF	MFSK	non amateur mode		MFSK non HAM	5 Fgs/Ltrs
MFSK 20	HF	MFSK	non amateur mode		MFSK non HAM	5 Fgs/Ltrs
NUM 13	HF	MFSK			MFSK non HAM	5 Fgs/Ltrs
PICCOLO-6	HF	MFSK	PICCOLO MK6 PICCOLO ITA-2		MFSK non HAM	Clear / 5 Fgs/Ltrs Encrypted
PICCOLO-12	HF	MFSK	PICCOLO MK12 PICCOLO ITA-5		MFSK non HAM	Encrypted
RF7B	HF	4FSK			MFSK non HAM	5 Fgs/Ltrs
DTMF-TTY	HF		DTMF-TTY	With all speed variant	MFSK HAM	Clear
THROB	HF	MFSK	THROB	With all speed variant	MFSK HAM	Clear
MFSK 8 n.H.	HF	MFSK	MFSK 8		MFSK HAM	5 Fgs/Ltrs
MFSK 16	HF	MFSK	MFSK 16		MFSK HAM	5 Fgs/Ltrs
MT63	HF	MFSK	MT63	With all speed variant	MFSK HAM	Clear / Encrypted
OLIVIA MFSK	HF	MFSK	OLIVIA		MFSK HAM	Clear / Encrypted
PSK 10	HF	PSK	PSK 10		PSK Modes	Clear
PSK 31	HF	DBPSK DQPSK	PSK 31		PSK Modes	Clear / Encrypted
PSK 31 FEC	HF	DBPSK DQPSK	PSK 31 FEC		PSK Modes	Clear / Encrypted
PSK 10 AM	HF	PSK	PSK 10 AM		PSK Modes	Clear / Encrypted
PSK 31 AM	HF	PSK	PSK 31 AM		PSK Modes	Clear / Encrypted
PSK 50 AM	HF	PSK	PSK 50 AM		PSK Modes	Clear / Encrypted
PSK 63	HF	DBPSK DQPSK	PSK 63		PSK Modes	Clear / Encrypted
PSK 125	HF	DBPSK DQPSK	PSK 125		PSK Modes	Clear / Encrypted
PSK 220	HF	DBPSK DQPSK	PSK 220		PSK Modes	Clear / Encrypted
PSK 31F	HF	DBPSK DQPSK	PSK 63F		PSK Modes	Clear / Encrypted
PSK 63F	HF	DBPSK DQPSK	PSK 63F		PSK Modes	Clear / Encrypted
PSK 125F	HF	DBPSK DQPSK	PSK 125F		PSK Modes	Clear / Encrypted
PSK 220F	HF	DBPSK DQPSK	PSK 220F		PSK Modes	Clear / Encrypted
CIS-11 TORG-10/11	HF	FSK		SYNOP DECODER	CIS	Clear Message Coded 5 Fgs/Ltrs / Encrypted
CIS-12 FIRE	HF		MS5		CIS	Encrypted
CIS-14 TORG-14	HF	FSK	CIS 14 AMOR AMOR 96		CIS	Clear Different Mapping table Message Coded 5 Fgs/Ltrs / Encrypted

System	Range	Demod.	Also known as	Includes	Menu	Common type of output
CROWD-36	HF	MFSK	CIS 36 / Russian Piccolo URS Multitone / CIS 10 11 11		CIS	Clear / 5 Fgs/Ltrs Encrypted
81-81	HF	FSK		40,5 / 81 / 162 Baud and variable	CIS	Encrypted
81-29	HF	FSK		40,5 / 81 / 162 Baud and variable	CIS	Encrypted
BEE 36-50	HF	FSK	BEE / 36-50 / T600 CIS-36-50 / CIS-50-50		CIS	Encrypted
405 395	HF	FSK			CIS	Encrypted
BF6 Baudot F7B	HF	4 FSK	Baudot F7B / ITA-2 Twin 2 channel ITA-2 RTTY Baudot Twinplex		CIS	Clear Different Mapping table 5 Fgs/Ltrs /Encrypted
R 37	HF	FSK			CIS	Encrypted
ARINC ANNEX-10	HF		ANNEX 10		SELCALL	Clear Message Coded
EEA	VHF/UHF	5 Tone			SELCALL	Clear selcall
EIA	VHF/UHF	5 Tone			SELCALL	Clear selcall
EURO	VHF/UHF	5 Tone			SELCALL	Clear selcall
CCITT	VHF/UHF	5 Tone			SELCALL	Clear selcall
CCIR1	VHF/UHF	5 Tone			SELCALL	Clear selcall
CCIR2	VHF/UHF	5 Tone			SELCALL	Clear selcall
CTCSS	VHF/UHF				SELCALL	Clear selcall
DCSS	VHF/UHF				SELCALL	Clear selcall
DTMF	VHF/UHF				SELCALL	Clear selcall
NATEL	VHF/UHF	5 Tone			SELCALL	Clear selcall
VDEW	VHF/UHF	5 Tone			SELCALL	Clear selcall
ZVEI1	VHF/UHF	5 Tone			SELCALL	Clear selcall
ZVEI2	VHF/UHF	5 Tone			SELCALL	Clear selcall
ZVEI1-13 BIIS	VHF/UHF	5 Tone			SELCALL	Clear selcall
ZVEI2-ITA xtone	VHF/UHF	xx Tone			SELCALL	Clear selcall
Universal X Tone	HF	xx Tone			SELCALL	Configurable Clear selcall
CODAN 8500 / CCIR 493-44	HF	FSK			SELCALL	Clear selcall
CODAN CHIRP	HF	BPSK	Codan ALE		SELCALL	Clear / Selcall Coded Message
Analogue 5 Tone Classify	VHF/UHF	xx Tone	TT		SELCALL	classifier
Digital 5 Tone Classify	VHF/UHF	xx Tone	TT		SELCALL	classifier
ACARS SITA	VHF		VHF ACARS		VHF/UHF	Clear / coded message
ATIS DSC GMDSS	VHF	FSK			VHF/UHF	Clear / coded message
BIIS	VHF/UHF		BIIS		VHF/UHF	Clear / coded message
EPIRB	VHF/UHF		EPIRB		VHF/UHF	Clear / coded message
ERMES	VHF/UHF				VHF/UHF	Clear / coded message
FLEX	VHF/UHF				VHF/UHF	Clear / coded message
FMS-BOS	VHF/UHF				VHF/UHF	Clear /coded message
GMDSS VHF	VHF	FSK			VHF/UHF	Clear /coded message
INMARSAT-C TDM	SAT	DPSK2			VHF/UHF	Clear
INMARSAT-C TDMA	SAT	BPSK			VHF/UHF	Clear
MDT	VHF/UHF				VHF/UHF	Clear / coded message
MPT1327	VHF/UHF				VHF/UHF	Clear / coded message
POCSAG Cityruf	VHF/UHF			512 1200 2400 Baud num/alphanum	VHF/UHF	Clear / coded message

System	Range	Demod.	Also known as	Includes	Menu	Common type of output
MIL STD 188-110 serial	HF	PSK		with all standard terminal mode Bit stream Output	MIL STD 188-series	Clear / 5 Fgs/Ltrs Encrypted /DATA /EMAIL Transparent Modem
MIL STD 188-110 39-tone	HF	PSK		with all standard terminal mode Bit stream Output	MIL STD 188-series	Clear / 5 Fgs/Ltrs Encrypted /DATA /EMAIL Transparent Modem
MIL STD 188-141 ALE	HF	MFSK	Ale (Automatic Link Establishment)	Bit stream Output scanning control	MIL STD 188-series	Selcall / Clear Coded Message 5 Fgs/Ltrs / Encrypted
STANAG-4415	HF	PSK		with all standard terminal mode Bit stream Output	MIL STD 188-series	Clear / 5 Fgs/Ltrs Encrypted /DATA /EMAIL Transparent Modem
STANAG-4481	HF	PSK		with all standard terminal mode Bit stream Output	MIL STD 188-series	Clear / 5 Fgs/Ltrs Encrypted /DATA /EMAIL Transparent Modem
STANAG-4481	HF	FSK		with all standard terminal mode	MIL STD 188-series	Clear / 5 Fgs/Ltrs Encrypted
STANAG-4285	HF	PSK		with all standard terminal mode Bit stream Output	MIL STD 188-series	Clear / 5 Fgs/Ltrs Encrypted /DATA /EMAIL Transparent Modem
STANAG-4529	HF	PSK		with all standard terminal mode Bit stream Output	MIL STD 188-series	Clear / 5 Fgs/Ltrs Encrypted /DATA /EMAIL Transparent Modem
STANAG-5065	HF	FSK			MIL STD 188-series	Clear / 5 Fgs/Ltrs Encrypted
MIL-M 55529A	HF	FSK			MIL STD 188-series	Clear / 5 Fgs/Ltrs Encrypted
CV 768	HF	FSK	Async		MIL STD 188-series	Clear / 5 Fgs/Ltrs Encrypted
MD 674	HF	FSK	Wireline FSK		MIL STD 188-series	Clear / 5 Fgs/Ltrs Encrypted
LINK 11	HF	PSK			MIL STD 188-series	Clear Selcall
DCF77					Tools	Clear
SYNOP			AAXX BBXX	Included in Baudot		Clear

Legend

Term	Description
System / Function	system name
Range	in use on
Demod	type of demodulator
Also known as	alternative system name
Include	special features
Menu	menu of CODE300-32
Output	type of known output

Legend for type of known output

Term	Description
Clear	readable text output based on Latin alphabets
5 Fgs/Ltrs	text send as ciphered text in group of 5 letters or number
Selcall	string of number or letter that identify the station
Coded Message	message with a defined coded like weather report, availability list, flight report, etc. etc
Different Mapping table	in use for transmit with some special national alphabet with a normal telex machine, terminal or pc
Encrypted	all type of possible encryptions; alphabet, letter substitutions, shift register, bit inversion, bit mask, briary, etc. etc
DATA	can be used for send binary data as is like as a normal file i.e. doc, .zip, .bmp, .jpg and also fax and voice (VOIP)
EMAIL	can be used to send and receive e-mail with normal e-mail client like Outlook or custom email client. Remember that normally e-mails are encrypted on Base 64
Transparent Modem	Like DATA but with some more facilities like TCP IP connections etc. etc

CODE300-32 Versions

CODE300-32 Standard Version

Package includes

- Code300-32 Software on CD ROM
- Support for handling of up to 2 input channel
- Security key USB
- Serial output via RS232
- Bit stream Output in MIL modes
- Editing of all code tables
- Two channel audio input by LAN
- Codan Chirp
- Available as option only at time of purchase:
Pactor III HOKA, Codan Package (Codan 9001/3012, Codan Converter)
- 12 months free software update
- 24 months warranty on hard- and software.

CODE300-32 Extended Version

Package includes

- Code300-32 Software on CD ROM
- Support for handling of up to 4 input channel
- Security key USB
- Serial output via RS232
- Bit stream Output in MIL modes,
- Editing of all code tables,
- Two (x2) channel audio input by LAN
- Pactor III HOKA
- Codan Package (Codan 9001/3012, Codan Chirp, Codan Converter)
- Available as option : Pactor I/II/III/IV, Cover II, Clover 2000 (Medav)
- Available as option : 44 (CHN 4+4)
- 24 months free software update
- 24 months warranty on hard- and software.

CODE300-32P Standard Version

Package includes

- Code300-32P Software on CD ROM
- Perseus Microtelecom support and control
- HF database
- Security key USB
- Serial output via RS232
- Bit stream Output in MIL modes
- Editing of all code tables
- Two channel audio input by LAN
- 12 months free software update
- 24 months warranty on hard- and software.

Analysis tools

Signal Analysis	Function
	Shift and Speed measurement
	Auto Classification
	Phase Spectrum
	Phase Oscilloscope
	Phase Plane
	Phase Constellation
	Waterfall
	Waterfall and Sonogram
	FSK Oscilloscope
	AFP Oscilloscope
	MFSK Oscilloscope
	Analog Oscilloscope
	Eye Pattern
	Straddle
	FFT Special with Zoom
	Tone Classification for VHF/UHF selcall systems (TT)
	Modulation Classifier for HF system
	Eye Pattern
	Syn/Asyn Oscilloscope
Data Analysis	Function
	Correlation Bit
	Correlation mod
	Correlation mod VHF
	Speed Bit Analysis
	ITA-2 Analysis
	Bit Analysis
	Character Analysis Simplex
	Character Analysis Duplex
	Character Count
Demodulator	Type
	Universal Demodulator
	PSK Demodulator
	MFSK Demodulator graphical
Audio Recording	Type
	Radio quality
Tools	Function
	Generator
	DCF 77
	Data and text editor

Autoclassification Capabilities

Classification by baud speed and bit pattern	Classification by baud speed only
Sitor A	POCSAG *
Sitor A IRS	8181
FEC B	AMOR
TDM ARQ 342 1 ch	BEE
TDM ARQ 242 2 ch	PSK AM 50
TDM ARQ 342 2 ch	ARQ IRA
TDM ARQ 242 4 ch	STANAG 4481 FSK
TDM ARQ 342 4 ch	MIL 188 110 SERIAL
PACTOR	STANAG 4285
PACTOR 100 BAUD	STANAG 4529
PACTOR 200 BAUD	INMARSAT TDMA
PACTOR II	G TOR
ARQ E	ARQ SWED
ARQ N	ARQ E3
FEC A	PSK 10
ARQ 6 70	OLIVIA
ARQ 6 90	PSK 31
ARQ 6 98	PSK 63
ARQ S 4	PSK 125 F
ARQ S 5	PSK 220 F
ARQ S 6	ALE
AKWARIUS	MIL 188 110 39 TONE
BAUDOT	CODAN CHIRP
BAUDOT 1, 1.5 2 ST BIT	HFDL
BAUDOT RUS 200	CODAN
CV 786	CODAN 8580
MD 674	CLOVER 2
FEC S	CLOVER 2000
TOR G	STANAG FSK 5065
POL ARQ	SKYFAX
IDLE FECS	ERMES
IDLE ARQ 242	MFSK 16
COQUELET 8	MFSK 18
COQUELET 8 FEC	MFSK 20
PICCOLO 6	CROWD 36
PICCOLO 12	MFSK 16 15
ROU FEC	405 395
AUTOSPEC	GW DATAPLEX
HC ARQ	DGPS
ASCII	DGPS 200
ARTRAC	GMDSS
MEROD	FEC 100
MFSK 8 HAM	TOR 7B
MMFSK 16 HAM	HNG FEC
VISEL	NUM 13
RS ARQ	AUM 13
MERLIN	SITA
PACKET	PACKET 1200 *
	PACKET 2400 *
	FLEX
	ATIS
	MORSE
	JAPANESE NAVTEX
	AK 10

* requires a sound card with low error rate and correct offset

Alphabets

Alphabet

ITA-2 Latin	
ITA-2 Baghdad 70 Arabic	
ITA-2 Baghdad 80 Arabic	
ITA-2 Cyrillic	
ITA-2 Hebrew	
ITA-2 Third Shift Cyrillic	
ITA-2 Third Shift Greek	
ITA-5 German	
ITA-5 US	
Morse Latin	
HEX	
User defined 5-bit	
User defined 7-bit	

Demodulators

Type	Note
CW Morse OOK	
FSK	10-2400 Baud
FEK	10-2400 Baud
MFSK	variable tone length 32 Tones, variable Shift
BPSK	10-2400 bps
DPSK, DBPSK, DQPSK, D8PSK, D16PSK	10-2400 bps
OQPSK, QPSK	10-2400 bps
CTCSS	
DTMF	
F7B	
R37, R38, R39, R39A	
BR 6028	

BIT stream output

Bit Stream output via LAN		Binary output directly on the decoding module	
PACTOR I	MIL188-110A Serial	CV768	PSK 125 F
PACTOR I / FEC	MIL188-110 39 Tones	MD 674	PSK 220 F
PACTOR I Special	MIL188-110 App A	PSK 31	STANAG 4481 FSK
MEROD	STANAG 4415	OLIVIA	STANAG 5065 FSK
SKYFAX	STANAG 4285	PSK 10	MIL M 55529 A
GW DATAPLEX	STANAG 4529	PSK 31 FEC	MDT
DGPS SC 104	STANAG 4481 PSK	PSK 10 AM	IMARSAT C TDM
CODAN CHIRP		PSK 31 AM	IMARSAT C TDM A
COQUELET 8		PSK 50 AM	EPIRB
COQUELET 8 FEC AUTO		PSK 63	MSFK Demodulator
MFSK UNICERSAL		PSK 125	
PICCOLO MK VI		PSK 220	
		PSK 31 F	
		PSK 63 F	

Info about status available via LAN

MIL 188 141 A
CODAN 8500
GMDSS HF
GMDSS VHF
GMDSS VHF ATIS

Generator

System included on Generator

CW only carrier	FEC	CCITT
CCIR 625 mode A	PICCOLO MK VI	DTMF
CCIR 625 mode B	COQUELT 13	EEA
Baudot	COQUELET 8 FEC	EIA
Baudot Sync	CROWD 36	EURO
ARQ E	FIRE	NATEL
ARQ E3	FIRE Q	VDEW
ARQ 6 70	ANNEX 10	ZVEI 1
ARQ 6 90	BOS FMS	ZVEI 2
ARQ 6 98	CCIR 1	DPSK 2
POL ARQ	CCIR 2	PSK 4
CCIR 242 2 ch		OQPSK
CCIR 342 2 ch		

This feature it was designed to generate emissions with known and repeatable signal to noise ratios, shifts and baud speeds from all systems listed The signal to noise figure is S/N in a 3KHz channel with AWGN. The generated text is fixed .

PC Requirement

Element	Note
Sound card input	LINE IN / MIC IN recommended LINE IN compatible AUX IN Compatible wit Virtual Audo Cable, Winradio VSC
Sound card sampling rate	maximum sampling rate up to 44/48 kHz recommended 11025 Hz
Sound card sampling rate precision	<50 ppm, recommended <20ppm
Sound card	One Sound card for Standard Version Two Sound card for Extended Version or Multichannel Sound Card
Screen Resolution	SVGA min.1024x768 recommended 1280x1024
Network Card	10/100/1000
CPU	Minimum requirements P IV 1.6 GHz *
RAM	Minimum requirements 512 MB *
OS Supported	WINDOWS 98, WINDOWS XP Home & Professional, Windows 7 32/64-bit
	* depends on the operating system in use