



10 Specifications

10.1 Antenna

LPA-A3-* Low Profile Antenna (LPA)	
Part Number:	LPA-A3
Colour:	Signal white RAL9003
Transmission band:	S-band
Length:	3.9m
Turning radius:	Ø 3925mm
Weight:	70kg
Horizontal beamwidth:	≤1.9° @ -3dB
Horizontal sidelobes within 10° of main beam:	≤ -23dB
Horizontal sidelobes outside 10° of main beam:	≤ -30dB
Vertical beamwidth:	≈26°
Polarisation:	Horizontal
Operational temperature range:	-25 to +60°C
Storage temperature range:	-40 to +60°C
Relative Humidity:	95%

10.2 Upmast enclosure

DTX-A1-xxxx	
AC supply: Single phase AC ONLY, excludes gearbox supply	Single Phase 85 to 264VAC, 50/60 Hz
	NOTE: AC voltage as measured at the input to the transceiver.
	Power consumption 440VA
	Heat dissipation 100W
	External breaker rating 6A Type B MCB
Motor supply:	Please refer to the GTX-A24 specifications (section 10.4)
Rotation speed:	24 or 40 RPM set in the GTX-A24 Drive Control Unit.
Azimuth Data:	4096 quadrature pulses per revolution.
Heading Data:	1 pulse per revolution.
Compass safe distances:	Standard (0.25 degrees): 1.2 metres
	Steering (1.0 degree): 0.52 metres
Weights:	123kg excluding antenna (all weights are nominal)
Vibration and Electromagnetic compatibility (EMC):	The system is designed to meet the applicable requirements of IEC 60945
Storage temperature:	The system is designed to meet the applicable requirements of IEC 60945. Class X: Unprotected equipment storage temperatures of between +70°C and -25°C
Operational temperature:	The system is designed to meet the applicable requirements of IEC 60945. Class X: Unprotected equipment operational temperatures of between (upmast/ external equipment): +55°C and -25°C -40°C With Arctic Option Kit fitted; please consult Kelvin Hughes for more information.
Humidity:	The system is designed to meet the applicable requirements of IEC 60945

DTX-A1-xxxx		
Salt spray:	The system is designed to meet the applicable requirements of IEC 60945	
Emissions:	The SharpEye™ radar system is designed to meet the applicable requirements of the following:	
	ITU-R SM.329-9	Meets the requirements of 'Spurious Emissions'
	ITU-R SM. 1541	Unwanted emissions in the out of band domain
Rain and spray:	The SharpEye™ radar system is designed to meet the applicable requirements of IEC 60945	
Wind:	Class X equipment is designed not to deteriorate in performance in relative wind speeds up to 100 knots	
Solar radiation:	The SharpEye™ radar system meets the applicable requirements of IEC 60945	

10.3 SharpEye

DTX-A603-xxxx SharpEye™	
Note: The specification shown can vary depending on the system variant. Please contact HENSOLDT UK quoting the full SharpEye™ part number for a full specification.	
Frequency:	1 of 8 frequencies, each 20MHz wide and selectable in the band 2.93 to 3.07GHz (<i>Note: Frequency selection is not user accessible</i>).
Type:	Solid State Power Amplifier.
Peak Power Output:	170W nominal.
RF average power output:	17W nominal.

ELECTROMAGNETIC COMPATIBILITY

All Hensoldt UK designed equipment incorporates high specification power supply filters, 360° earthing connectors, 360° earthing cable glands and screened inter-unit cables to ensure good EMC with other equipment.

All Hensoldt UK designed equipment is designed to meet the requirements of IEC 60945 Third Edition clause 4.5.1 for Class B protected equipment for both emissions and immunity.

ELECTROMAGNETIC EMISSIONS

The system meets the requirements of 'Unwanted Emissions in the Out of-Band Domain' (ITU-R SM.1541).

The system meets the requirements of 'Spurious Emissions' (ITU-R SM.329-9).

Hensoldt UK designed equipment is designed and constructed to Hensoldt UK's own standards of practice and is constructed so that access to high voltages may only be gained after having used a tool, such as a spanner or screwdriver. Warning labels are prominently displayed both within the equipment and on protective covers.

10.4 GTX-A24 Drive Control Unit

GTX-A24		
POWER	Input Power Requirement:	Single Phase 220 V AC, 50/60 Hz
	Power consumption:	1.5kW / 2200VA
	Heat dissipation:	150W
	Output voltage:	200V AC 3-phase supply
	External breaker rating:	6A Type B MCB
ENVIROMENTAL	Location:	The GTX-A24 is designed to be internally mounted in a position that offers quick well illuminated and unrestricted access to the unit. To meet with electrical safety recommendations, the unit should be situated in a restricted area where access is only available to authorised personnel.
	Storage temperature:	The system is designed to meet the applicable requirements of IEC 60945. Class B: Protected equipment storage temperatures of between +55°C and -15°C
	Operational temperature:	The system is designed to meet the applicable requirements of IEC 60945. Class B: Protected equipment operational temperatures of between (upmast/ external equipment): +55°C and -15°C
	Ambient Temperature Range:	-15 deg. C to +55 deg. C
	Relative Humidity:	95% at +40Deg.C
COMPASS SAFE DISTANCES	Standard (0.25 degrees):	2.46 metres
	Steering (1.0 degree):	1.54 metres
WEIGHT	GTX-A24:	11kg

10.5 110/ 220VAC transformer (optional)

OPTIONAL GTX-A234		
POWER	Input:	Single Phase 110 V AC, 50/60 Hz
	Output:	Single phase 220V AC, 50/ 60 Hz
	Power consumption:	3KVA Maximum.
	Heat dissipation:	<200W
	External breaker rating:	16A type C or type D is to be used for the transformer 100V feed to handle the magnetising inrush.
	Recommended AC input cable:	The cable should be suitably rated for the specified breaker. A cable with a grounded high coverage tinned copper braid screen is recommended to reduce the risk of EMC problems. The gland is sized to take a cable with up to 16mm maximum outer diameter.

OPTIONAL GTX-A234		
ENVIROMENTAL	Location:	The GTX-A234 is designed to be internally mounted in a position that offers unrestricted access to the unit. To meet with electrical safety recommendations, the unit should be situated in a restricted area where access is only available to authorised personnel.
	Operational temperature:	The step-up transformer is tested to IEC 61558. It is qualified to 93% relative humidity at 20-30°C, and de-rated by 16A MCB protection for dry heat at 55°C.
COMPASS SAFE DISTANCES	The step-up transformer is supplied as an ancillary component in the electrical supply to the marine radar equipment, rather than part of the Type Approved navigation radar system. It has not been tested in accordance with the requirements of IEC 60945, or any other marine standard. It is sold as compliant to industrial safety legislation in force in the United Kingdom and Europe – to the standard BS EN (IEC) 61558-1:2005 +A1:2009. To that end, as it has not been tested for Compass Safe Distance: It should be installed at a distance from magnetic compasses that is appropriate for the class of vessel on which it is installed. As it is likely to be installed in a machinery space or electrical cabinet, the suitability of the product for the associated environment will need to be assessed by qualified personnel.	
GENRAL	Weight:	37kg
	Finish:	RAL7032
	Material:	Mild steel enclosure rated at IP22

11 Annex A: Inverter Defaults

The inverter fitted within the GTX-A24 is factory configured and should not require any commissioning. FOR REFERENCE USE ONLY, the following details the factory default settings for the various inverters that can be fitted within the GTX-A24 (document source TS1000-0935 issue 11).

11.1 TOSHIBA VFNC1 (Grey) Inverter Settings

HENSOLDT UK PART NUMBER: 45-690-0033-001

FIRST TIME POWER ON

Switch mains ON. Inverter initialises and readout goes to n50, which indicates 50Hz input conditions will be set (if not, press $\uparrow$ button until n50 is displayed).

Press ENTER. The inverter will set the relevant internal settings, the display will show HELLO then settle at 0.0.

CUSTOM SETTINGS

The Inverter parameters must then be changed as follows:

- Press MON button.
- Whilst programming, the Prog indicator is ON for main function path and Flashing for F---setting path.
- Press $\uparrow$ buttons to scroll down through the function menu as listed below. Pressing $\downarrow$ button scrolls up the menu.
- At any function press ENT to read the function setting. Press $\uparrow$ $\downarrow$ buttons to change setting.
- Press ENT to enter new setting and return to function menu.
- When the menu reaches F---, Press ENT to access F100 then $\uparrow$ to scroll F101 F102 to F990.
- Pressing $\downarrow$ scrolls F100, F990, F880 .. to F100.
- At any F--- function press Ent to read function setting and $\uparrow$ $\downarrow$ buttons to change Setting.
- Press Ent to enter the new setting and return to the Function menu.
- To exit menus, press MON button until 0.0 is displayed.
- Set the following parameters:

Table 1 - Custom Settings for TOSHIBA VFNC1 Inverter			
FUNCTION	DESCRIPTION	SET	OPERATION
CN0d	Command Mode	0	0 - GTX-A104 SKA control 1 - Inverter operation panel
FN0d	Frequency Setting Mode	0	0 - GTX-A104 SKA control 1 - Inverter operation panel 2 - Inverter panel potentiometer
typ	Standard Setting Mode (Input frequency)	1---0	UNLESS SPECIFIED, SET TO 50Hz, FOR ANY MAINS INPUT FREQUENCY. 1---0, sets FH, UL, uL & F170 to 50Hz 2---0, sets FH, UL, uL & F170 to 60Hz 3---0, manufacturers default settings
FR	Forward / Reverse	0	0 - Forward 1 - Reverse
ACC	Acceleration Time	5	5 seconds
dEC	Deceleration Time	10	10 seconds
FH	Maximum Frequency	50	Set by 'typ'
UL	Upper Limit Frequency	50	Ignore; set by 'typ'
LL	Lower Limit Frequency	0	0Hz
uL	Base Frequency, (Motor)	50	Ignore; set by 'typ'
Pt	V/F Control Mode Selection	0	Voltage / Frequency constant 3 - Sensorless Vector control

Table 1 - Custom Settings for TOSHIBA VFNC1 Inverter

FUNCTION	DESCRIPTION	SET	OPERATION
ub	Torque Boost	5	5% boost
tHr	Motor Thermal Protection Level	80	80% (equivalent 1.5kW Motor)
OLN	Electronic Thermal Protection Level	0	Overload Protection OFF Overload Stall ON
Sr-1	Preset Speed Frequency 1	0	0Hz
Sr-2	Preset Speed Frequency 2	25	25Hz
Sr-3	Preset Speed Frequency 3	50	50Hz
Sr-4	Preset Speed Frequency 4	0	0Hz
Sr-5	Preset Speed Frequency 5	0	0Hz
Sr-6	Preset Speed Frequency 6	0	0Hz
Sr-7	Preset Speed Frequency 7	0	0Hz
F---	Extended Parameter	ENT	
F109	Analog / Logic input function select	2	Contact Input
F127	Sink / Source input selection	100	Source
F170	Base Frequency	50	Ignore; set by 'typ'
F300	PWM Carrier Frequency	2	4kHz
F301	Auto Restart	0	Disabled
F302	Repetitive Power Ride-Through	0	Disabled
F303	Retry Selection	5	5 times at 1 second intervals
417	Motor Rated Speed	2820	Unless specified, Set to 50Hz, for any mains input frequency. 2820 - for 50Hz 'typ' setting 3384 - for 60Hz 'typ' setting

INVERTER DEFAULT SETTINGS

Table 2 – Inverter Default Settings VFNC1

FUNCTION	DESCRIPTION	SET	OPERATION
AUH	History function.		
AUF	Wizard function.		
FNSL	FM/OUT Terminal Function Selection	0	Default Not used
FN	Meter Adjustment.	0	
Gr..U	Search for Changed Settings. This menu only shows parameters that are not set to default value. Gives fast tracks through menus.		

11.2 TOSHIBA VFNC3 (Red) Inverter Settings

HENSOLDT UK PART NUMBER: 45-690-0066-001

FIRST TIME POWER ON

Switch mains ON. Inverter initialises, the display will show HELLO then settle at 0.0.

If display reads a flashing SEt, then rotate the wheel to EU and press wheel to set, (init will appear) display should now be 0.0.

CUSTOM SETTINGS

The Inverter parameters must then be changed as follows:

- Press MODE, AUH should appear, then rotate wheel to CnOd and press wheel to set parameter as in table 2. (Pressing the wheel after each setting should advance to next function).
- Rotate the wheel clockwise to scroll down through the function menu as listed below. Rotating the wheel counter clockwise will scroll up the menu.
- At any function press the wheel to read the function setting. Rotate wheel to change setting.
- Press the wheel to enter a new setting and return to function menu.
- To exit menus, press STOP button (4 times) until 0.0 is displayed.
- Set the following parameters:



Table 2 - Custom Settings for TOSHIBA VFNC3 Inverter

FUNCTION	DESCRIPTION	SET	OPERATION
CN0d	Command Mode	0	0 - GTX-A104 SKA control 1 - Inverter operation panel
FN0d	Frequency Setting Mode	0	0 - GTX-A104 SKA control 1 - Inverter operation panel 2 - Inverter panel potentiometer
FnSL	Meter Selection Mode	0	N/A
Fn	Meter gain adjustment	0	N/A
Fr	Forward / Reverse	0	0 - Forward 1 - Reverse
ACC	Acceleration Time	5	5 seconds
dEC	Deceleration Time	10	10 seconds
FH	Maximum Frequency	50	Ignore; set by 'typ'
UL	Upper Limit Frequency	50	Ignore; set by 'typ'
LL	Lower Limit Frequency	0	0Hz
uL	Base Frequency, (Motor)	50	Ignore; set by 'typ'
uLu	Supply Voltage	230	Ignore; set by 'typ'
Pt	V/F Control Mode Selection	0	Voltage / Frequency constant 3 - Sensorless Vector control
ub	Torque Boost	5	5% boost
tHr	Motor Thermal Protection Level	80	80% (equivalent 1.5kW Motor)
OLN	Electronic Thermal Protection Level	0	Overload Protection OFF Overload Stall ON
Sr-1	Preset Speed Frequency 1	0	0Hz
Sr-2	Preset Speed Frequency 2	25	25Hz
Sr-3	Preset Speed Frequency 3	50	50Hz
Sr-4	Preset Speed Frequency 4	0	0Hz
Sr-5	Preset Speed Frequency 5	0	0Hz
Sr-6	Preset Speed Frequency 6	0	0Hz
Sr-7	Preset Speed Frequency 7	0	0Hz
typ	Default parameters	3 0	Ignore; set by 'SEt' at initial power on

Table 2 - Custom Settings for TOSHIBA VFNC3 Inverter

FUNCTION	DESCRIPTION	SET	OPERATION
SEt	Region	4	Ignore; set at initial power on
PSEL	Registered Parameter display	0	Ignore; set by 'typ'
F1--	Extended Parameter	Press wheel	
F109	Analog / Logic input function select	2	Contact Input
F127	Sink / Source input selection	100	Source
F170	Base Frequency	50	Ignore; set by 'typ' ^{Note}
F300	PWM Carrier Frequency	4	4kHz
F301	Auto Restart	0	Disabled
F302	Repetitive Power Ride-Through	0	Disabled
F303	Retry Selection	5	5 times at 1 second intervals
F417	Motor Rated Speed	2820	UNLESS SPECIFIED, SET TO 50Hz, FOR ANY MAINS INPUT FREQUENCY. 2820 - for 50Hz 'typ' setting 3384 - for 60Hz 'typ' setting

INVERTER DEFAULT SETTINGS

Table 3 – Inverter Default Settings VFNC3

FUNCTION	DESCRIPTION	SET	OPERATION
AUH	History function.		
AUF	Wizard function.		
FNSL	FM/OUT Terminal Function Selection	0	Default Not used
FN	Meter Adjustment.	0	
Gr..U	Search for Changed Settings. This menu only shows parameters that are not set to default value. Gives fast tracks through menus.		

Note: Unless specified, Set to 50Hz, for any mains input frequency. Where specified, the input frequency can be set to 50Hz or 60Hz by changing the '**typ**' function setting and the control access (to adjust start/stop and frequency etc.) can be changed from REMOTE to LOCAL INVERTER PANEL by changing the settings of '**CNOd**' & '**FNOd**'.

11.3 REHFUSS inverter settings

HENSOLDT UK PART NUMBER: 45-690-0035-001

FIRST TIME POWER ON

Switch mains ON. Inverter initialises and readout goes to 50.0, Flashing ON and OFF.
When set to RUN, the display shows 50.0, not flashing.

CUSTOM SETTINGS

The Inverter parameters are changed as follows:

- Press DSP/FUN button.
- Press $\uparrow/\downarrow$ buttons to scroll Function menu, F00.
- Press Data/Ent to read Function Setting.
- Press $\uparrow/\downarrow$ buttons to change Setting.
- Press Data/Ent to enter the setting and return to the Function menu.
- Switch mains ON. MAINS ON indicator will light. Inverter initialises and readout goes to 50.00 (flashing)
- Set the following parameters on the REHFUSS Inverter.

FUNCTION	SET	DESCRIPTION	OPERATION
F00	000	Factory adjustment	
F01	02.0	Accelerate time	3 secs
F02	10.0	Decelerate time	10 secs
F03	001	Operating Mode	Fwd / Rev & Run / Stop
F04	000	Fwd / Rev	Fwd
F05	001 or 004	V/F pattern	1 (linear) 2 50Hz Input 4 (linear) 2 60 Hz Input
F06	50.0	Frequency upper level	50 Hz
F07	00.0	Frequency lower level	0 Hz
F08	10.0	SP1 frequency	Factory Default
F09	06.0	JOG Frequency	Factory Default
F10	001	Operation Control	Terms (EXT)
F11	000 or 001	Frequency control	Keypad - 0 or Terms - 1
F12	005	Carrier frequency control	5 kHz
F13	10.0	Torque compensation	10%
F14	000	Stop method	Decelerate stop
F15	00.5	DC braking time	Factory Default
F16	01.5	DC braking injection frequency	Factory Default
F17	08.0	DC braking torque	Factory Default
F18	100	Electronic thermal	100%
F19	002	Multifunction input terminal 6	SP1
F20	005	Multifunction input terminal 7	Reset
F21	003	Multifunction output terminal	Fault
F22	000	Reverse instruction	Rev run enabled
F23	000	Momentary power loss	Enabled
F24	001	Auto restart	1 try.
F25	000	Factory setting	Factory Default
F26	20.0	CPU version	Factory Default
F27	30.0	Fault trace	Factory Default
F28	001		Factory Default
F29	02.2		Factory Default
F30		Fault records cleared	



12 Abbreviations

Some of the following abbreviations may not appear in this handbook and are shown for reference only.

ACH	Anti-condensation heater
ACP	Azimuth Clock Pulse (azimuth pulses)
ACK	Acknowledge
ACQ	Acquire
AFC	Automatic Frequency Control
AGC	Automatic Gain Control
AIS	Automatic Identification System
ALT	Altitude or Alternative
ANCH	Anchor
ANT	Antenna
AP	Auto-Pilot
ARCS	Admiralty Raster Chart Service
ARP	Azimuth Reset Pulse (heading line)
AUD	Audio
AZ	Azimuth
BCR	Bow Crossing Range
BCT	Bow Crossing Time
BIT/BITE	Built In Test/ Built in Test Equipment
BRG	Bearing
BRILL	Brilliance
BWW	Bearing Waypoint to Waypoint
CAL	Calibrate or Calibration
CANBus	Controller Area Network Bus
CCRP	Consistent Common Reference Point
CCRS	Consistent Common Reference System
CENT	Centre
CFAR	Constant false Alarm Rate
GHG	Change
CLR	Clear
CNCL	Cancel
CONT	Contrast
CORR	Correction or Correlator
CPA	Closest Point of Approach
CRS	Course
CTW	Course Through Water
C-UP	Course UP
CSR	Cursor
DAY/NT	Day/ Night
DDU	Data Distribution Unit
DECR	Decrease
DEL	Delete
DEP	Departure
DEST	Destination
DEV	Deviation
DISP	Display
DIST	Distance
DGPS	Differential Global Positioning System
DPTH	Depth
DR	Dead Reckoning
DTG	Distance To Go
EBL	Electronic Bearing Line
EBRL	Electronic Bearing & Range Line
ECDIS	Electronic Chart Display & Information System
ECS	Electronic Chart System
ENC	Electronic Navigation Chart
ENH	Enhance
ENT	Enter
EMC	Electromagnetic Compatibility
EMCON	Electromagnetic Control
EP	Estimated Position
EPA	Electronic Plotting Aid
EPFS	External Position Fixing System
ERBL	Electronic Range & Bearing Line
ERR	Error
ETA	Estimated Time of Arrival
ETD	Estimated Time of Departure/ Target Detection
EXT	External
EZ	Exclusion Zone
FAT	Factory Acceptance Test
FCS	Fire Control System
FD	Frequency Diversity
FWD	Forward
GC	Great Circle

GNSS	Global Navigation Satellite System
GPS	Global Positioning System
GZ	Guard Zone
HAP	Harbour Approach & Pilotage
HDG	Heading
HL	Heading Line
H-UP	Head-UP
IALA	International Association of Lighthouse Authorities
IBS	Integrated Bridge System
IF	Intermediate Frequency
ILS	Integrated Logistic Support
IMO	International Maritime Organisation
IND	Indicator
INS	Integrated Navigation System
INT	Interval
I/O	Input/ Output
IP	Internet Protocol
IR	Interference Rejection
KH	Kelvin Hughes
KN	Knots
LAN	Local Area Network
LAT	Latitude
LCD	Liquid Crystal Display
LED	Light Emitting Diode
LIM	Limit(s)
LNFE	Low Noise Front End
LON	Longitude
LOP	Line(s) of Position
LP	Long Pulse
LPA	Low Profile Antenna
LR	Long Range
LRU	Line Replaceable Unit
MAN	Manual
MAS	Man Aloft Switch
MDS	Minimum Detectable Signal
MISM	Modular Interface System Module
MMI	Man Machine Interface
MMSI	Maritime Mobile Service Identity
MOB	Man Over Board
MON	Monitor
MP	Medium Pulse
MTD	Moving target Detection
MTTR	Mean Time To Repair
MVR	Manoeuvre
NAV	Navigation
NM	Nautical Mile
Nm	Newton Metre
NORM	Normal
N-UP	North-UP
OOW	Officer On Watch
OS	Own Ship
PI	Parallel Index Line(s)
PL	Pulse Length
PM	Performance Monitor
POS	Position
PPR	Pulses Per Revolution
PRF	Pulse Repetition Frequency
PWM	Pulse Width Modulation
PWR	Power
RAD	Radius
RADAR	Radio Detection & Ranging Receiver
RACON	Radar Beacon
RCDS	Raster Chart Display System
R CRS	Relative Course
RDU	Radar Distribution Unit
REF	Reference
REL	Relative
RF	Radio Frequency
RL	Rhumb Line
RM	Relative Motion
RM(R)	Relative Motion with Relative Trails
RM(T)	Relative Motion with True Trails
RNC	Raster Navigation Chart
RNG	Range
ROT	Rate Of Turn
RPM	Revolutions Per Minute

RR	Range Ring(s)
R SPD	Relative Speed
RTD	Real Time Display
Rx	Receive
SART	Search And Rescue Transponder
SAT	Satellite
SC/SC	Scan to Scan
SEL	Select
SETD	Systems Engineering Technical Document
SOG	Speed Over Ground
SOLAS	Safety Of Life At Sea
SP	Short Pulse
SPD	Speed
STAB	Stability
STBY	Standby
STC	Sensitivity Time Control
STG	Speed to Go
STW	Speed Through Water
SVDR	Simplified Voyage Data Recorder
SYM	Symbol
SYNC	Synchronisation
T	True
TBA	To Be Advised
TBC	To Be Confirmed
TCP	Transmission Control Protocol
TCPA	Time to Closest Point of Approach
T CTW	True Course Through Water
TGT	Target
TM	True Motion or TM Trade Mark
TM(T)	True Motion with True Trails
TOA	Time Of Arrival
TOD	Time of Departure
TRK	Track
T STW	True Speed Through Water
TT	Target Tracking
Tx	Transmit
TWOL	Time to Wheel Over Line
UNSTAB	Un-Stabilised
UPS	Uninterruptable power supply
USB	Universal Serial Bus
VAR	Variable
VDR	Voyage Data Recorder
VECT	Vector
VID	Video
VOY	Voyage
VRM	Variable Range Marker
VSWR	Voltage Standing Wave Ratio
WAN	Wide Area Network
WGS	World Geodetic System
WI	Work Instruction
WOL	Wheel Over Line
WOP	Wheel Over Point
WOT	Wheel Over Time
WPT	Waypoint
XTD	Cross Track Distance
XTE	Cross Track Error



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