

NVR-9000 RAU has no Audible Alarm Signal

Regulation relative

IEC 61996-1 2021 for VDR

IEC 62923-1, IEC 62923-1 2018 for BAM(Bridge Alert Management)

1, Define of Alert

IEC 62923-1

3.1.8

alert

(MSC.302/A) *announcement of abnormal situations and conditions requiring attention*

Note 1 to entry: *Alerts are divided in four priorities: emergency alarms, alarms, warnings and cautions. An alert provides information about a defined state change in connection with information about how to announce this event in a defined way to the system and the operator.*

2, Alert priorities

Emergency alarm, Alarm, Warning, Caution

Caution should not make audible signal.

IEC 62923-1, P39

6.3.6 Cautions

6.3.6.1 Presentation

6.3.6.1.1 Requirement

(MSC.302/7.5.1) *A caution shall be indicated (presented) by a steady visual indication. No acknowledgement shall be necessary for a caution.*

A caution shall be silent and is not allowed to be accompanied by audible signal or speech output (see Table 5).

(MSC.302/7.5.3) *A message shall be provided of sufficient detail to enable the bridge team to identify and address the caution condition.*

3, All of Alert for VDR are Caution

IEC 61996-1, P16-P17

Checking of recording integrity will make Caution

4.4.4 Recording integrity

(See 6.1.10)

(MSC.333(90)/5.3.3) *The recording method shall be such that each item of the recorded data is checked for integrity, i.e. it is identical to the data being received, and an alert according to IMO A.1021(26) given if a non-correctable error is detected.*

The VDR shall automatically continuously monitor the following:

- power supply;
- record function;
- microphone functionality.

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Malfunction of any of the above shall generate a caution (see 3.1.4). The caution shall remain until the equipment is serviceable. It shall also indicate its caution status by means of contacts of a relay (or equivalent) which is held energized in the no-alert condition.

The VDR shall also continuously monitor the period of data stored on each element of the final recording medium. If the period of any of the elements falls below the minimum compliant period defined in 4.5.4 a caution shall be generated and remain while the condition is true.

4, IEC61996-1 2021 modified from previous version

P7, All the Alarm were changed to Caution

- e) References to “alarm” requirements in the previous edition have been substituted by references to “cautions” in line with current IMO recommendations. The test methods in Clause 6 have been updated to reflect the new requirements.

Annex A at NVR-9000 user manual Alert List of NVR-9000
 All the alert are Caution, they will not make audible signal.

ANNEX A ALERT LIST

Alert Identifier	Ins	Alert Title	Alert Description	Prio	Cat	Reason
3009	2	RAU LOST	Check RAU	C	B	DAU lost connect with RAU
3009	3	DAU LOST	Check DAU	C	B	RAU lost connect with DAU
3023	4	AC POWER LOST	Check AC power and switch	C	B	AC 110V/220V Lost
3023	5	BAT LOST	Check battery	C	B	Battery Voltage Lost
3023	6	BAT LOW	Check battery	C	B	Battery Voltage Low
3009	7	UTC LOST	Check GPS	C	B	UTC Source Lost
3009	8	USB RW FAIL	Check USB disk	C	B	USB Disk Read and Write Fail
3009	9	LOG W FAIL	Check MCU	C	B	MCU Write Log File Fail
3009	10	CONFIG R FAIL	Check MCU	C	B	MCU Write Config File Fail
3009	11	FPC LAN LOST	Check FPC LAN cable	C	B	FPC Lan Connection Lost
3009	12	FFC LAN LOST	Check FFC LAN cable	C	B	FFC Lan Connection Lost
3009	13	LRU LAN LOST	Check LRU LAN cable	C	B	LRU Lan Connection Lost
3009	14	FPC LOST	Check FPC	C	B	FPC Lost
3009	15	FPC LOW CAPACITY	Check FPC	C	B	FPC Low Capacity
3009	16	FFC LOST	Check FFC	C	B	FFC Lost
3009	17	FFC LOW CAPACITY	Check FFC	C	B	FFC Low Capacity
3009	18	LRU LOST	Check LRU	C	B	LRU Lost
3009	19	LRU LOW CAPACITY	Check LRU	C	B	LRU Low Capacity
3009	20	DAU COM LAN	Check NVR909 in DAU	C	B	Lost Connect with NVR901
3009	21	DEU1 LOST	Check DEU1 and LAN cable	C	B	DEU1 Lan Connection Lost
3009	22	DEU2 LOST	Check DEU2 and LAN cable	C	B	DEU2 Lan Connection Lost
3009	23	DEU3 LOST	Check DEU3 and LAN cable	C	B	DEU3 Lan Connection Lost
3009	24	DEU4 LOST	Check DEU4 and LAN cable	C	B	DEU4 Lan Connection Lost
3009	25	VIU1 LOST	Check VIU1 and LAN cable	C	B	VIU1 Lan Connection Lost
3009	26	VIU2 LOST	Check VIU2 and LAN cable	C	B	VIU2 Lan Connection Lost
3009	27	VIU3 LOST	Check VIU3 and LAN cable	C	B	VIU3 Lan Connection Lost
3009	28	VIU4 LOST	Check VIU4 and LAN cable	C	B	VIU4 Lan Connection Lost
3003	29	VIU1 SAMPLE FAIL	Check VIU1 and VGA cable	C	B	VIU1 Sample Image Fail
3003	30	VIU2 SAMPLE FAIL	Check VIU2 and VGA cable	C	B	VIU2 Sample Image Fail
3003	31	VIU3 SAMPLE FAIL	Check VIU3 and VGA cable	C	B	VIU3 Sample Image Fail
3003	32	VIU4 SAMPLE FAIL	Check VIU4 and VGA cable	C	B	VIU4 Sample Image Fail
3003	33	DAU COM	Check DAU COM	C	B	DAU Com Port Connection Fail
3003	34	DEU1 COM	Check DEU1 COM	C	B	DEU1 Com Port Connection Fail
3003	35	DEU2 COM	Check DEU2 COM	C	B	DEU2 Com Port Connection Fail