

# MIB Specification

WJ-ND400 Series

Document Version: 1.02  
2010. Jan.13

Panasonic System Networks Co.,Ltd.

## Version History

Version	Date of issue	Description
1.00	2009.Feb.27	First Version
1.01	2009.Mar.06	The collapse of table of temperature information is corrected.
1.02	2010.Jan.13	Company name changed

## Limitation of liability

THIS PUBLICATION IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT OF THE THIRD PARTY'S RIGHT.

THIS PUBLICATION COULD INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. CHANGES ARE ADDED TO THE INFORMATION HEREIN, AT ANY TIME, FOR THE IMPROVEMENTS OF THIS PUBLICATION AND/OR THE CORRESPONDING PRODUCT (S).

## Disclaimer of warranty

IN NO EVENT SHALL Panasonic Corporation BE LIABLE TO ANY PARTY OR ANY PERSON, EXCEPT FOR REPLACEMENT OR REASONABLE MAINTENANCE OF THE PRODUCT, FOR THE CASES, INCLUDING BUT NOT LIMITED TO BELOW:

- (1) ANY DAMAGE AND LOSS, INCLUDING WITHOUT LIMITATION, DIRECT OR INDIRECT, SPECIAL, CONSEQUENTIAL OR EXEMPLARY, ARISING OUT OF OR RELATING TO THIS PUBLICATION AND/OR THE CORRESPONDING PRODUCT (S);
- (2) PERSONAL INJURY OR ANY DAMAGE CAUSED BY INAPPROPRIATE USE OR NEGLIGENT OPERATION OF THE USER;
- (3) UNAUTHORIZED DISASSEMBLE, REPAIR OR MODIFICATION OF THE CORRESPONDING PRODUCT (S) BY THE USER;
- (4) ANY PROBLEM, CONSEQUENTIAL INCONVENIENCE, OR LOSS OR DAMAGE, ARISING OUT OF THE SYSTEM COMBINED BY THE DEVICES OF THIRD PARTY;
- (5) ANY CLAIM OR ACTION FOR DAMAGES, BROUGHT BY ANY PERSON OR ORGANIZATION BEING A PHOTOGENIC SUBJECT, DUE TO VIOLATION OF PRIVACY WITH THE RESULT OF THAT SURVEILLANCECAMERA'S PICTURE, INCLUDING SAVED DATA, FOR SOME REASON, BECOMES PUBLIC OR IS USED FOR THE PURPOSE OTHER THAN SURVEILLANCE.

## Table of contents

<b>1. INTRODUCTION</b> .....	<b>4</b>
<b>2. OUTLINE</b> .....	<b>4</b>
2.1. MIB STRUCTURE .....	5
<b>3. COMMON MIB (MIB-2)</b> .....	<b>7</b>
3.1. SYSTEM .....	7
3.2. INTERFACE .....	8
3.3. IP .....	9
<b>4. PRIVATE MIB</b> .....	<b>10</b>
4.1. PANASONIC COMMON MIB .....	10
4.2. PSSSSD COMMON MIB (COMMON) .....	11
4.3. PSSSSD COMMON MIB (ACCESS LOG) .....	12
4.4. PSSSSD COMMON MIB ( NETWORK LOG ) .....	14
4.4.1. <i>Protocol type of network log type</i> .....	14
4.4.2. <i>Network log category</i> .....	15
4.4.3. <i>Network log type</i> .....	15
4.5. DISK RECORDER CATEGORY COMMON MIB ( EVENT LOG ) .....	16
4.5.1. <i>Event log type</i> .....	17
4.5.2. <i>Port number in the back of ND400</i> .....	18
4.6. DISK RECORDER CATEGORY COMMON MIB ( ERROR LOG ) .....	19
4.6.1. <i>Error log type</i> .....	20
4.6.2. <i>Error log unit number</i> .....	21
4.6.3. <i>Error log Disk number/Channel number/Port number/Area number/Fan                 number 22</i> .....	22
4.7. DISK RECORDER CATEGORY COMMON MIB (HDD INFORMATION) .....	27
4.8. DISK RECORDER CATEGORY COMMON MIB (REBOOT STATUS) .....	31
4.9. DISK RECORDER CATEGORY COMMON MIB (CAMERA CONNECTION STATUS) .....	31
4.10. DISK RECORDER CATEGORY COMMON MIB ( TEMPARATURE ) .....	32
<b>5. COMMUNITY</b> .....	<b>33</b>
<b>6. WJ-ND400 SNMP SETTINGS</b> .....	<b>33</b>
<b>7. MIB UNDER ENTERPRISES</b> .....	<b>33</b>

## 1. Introduction

This document is described about a part of MIB information of WJ-ND400 series.

### Important:

The Live image view to PC might stop for a few ten seconds when the load is put on the communication between WJ-ND400 - PC as the MIB is downloaded in bulk. However recording is continued.

## 2. Outline

The MIB information to be implemented is Read only, and Set/Write is impossible.

## 2.1. MIB structure

Category	Object name	Description
Common MIB (MIB-2)	System	<ul style="list-style-type: none"> <li>-Model No. Software version</li> <li>-Vender OID</li> <li>-The time since the network management portion of the system was last re-initialized</li> <li>-The contact person for this managed node</li> <li>-An administratively-assigned name for this managed node</li> <li>-The physical location of this node</li> <li>-A value which indicates the set of services that this entity primarily offers</li> </ul>
	Interface	<ul style="list-style-type: none"> <li>-The number of LAN interface</li> <li>-Index of LAN interface</li> <li>-Information about LAN interface</li> <li>-The type of LAN interface</li> <li>-MAC address</li> </ul>
	Ip	<ul style="list-style-type: none"> <li>-IPv4 address</li> <li>-Index of interface as IPv4 address</li> <li>-Subnet mask of interface as IPv4 address</li> </ul>
Private MIB	Panasonic	<ul style="list-style-type: none"> <li>-vendor name</li> <li>-Model number</li> <li>-Current date and time</li> <li>-Serial number</li> </ul>
	SSD	<ul style="list-style-type: none"> <li>-The number of user access</li> <li>-The number of alarm</li> </ul>
		<ul style="list-style-type: none"> <li>-The number of Access log</li> <li>-Index of Access log</li> <li>-The date and time of Access log</li> <li>-Access log type</li> </ul>
		<ul style="list-style-type: none"> <li>-The number of Network log</li> <li>-Index of Network log</li> <li>-The date and time of Network log</li> <li>-Network log type</li> </ul>

Category	Object name	Description
Private MIB	HDR	-The number of Event log -Index of Event log -The date and time of Event log -Event log type
		-The number of Error log -Index of Error log -The date and time of Error log -Error log type
		-HDD capacity -HDD hour meter
		-Reboot status
		-Camera connection

### 3. Common MIB (MIB-2)

**Important:**

About MIB which is not defined with this document, it is Linux standard MIB.

It is not guaranteed about the contents.

#### 3.1. system

**MIB-2=1.3.6.1.2.1**

No.	Object name	Syntax	Access	OID	Description	Factory default
1	sysDescr	DisplayString (size0..255)	RO	MIB2.1.1	Model No. Software version	e.g. WJ-ND400 SWVer1.00
2	sysObjectID	ObjectIdentifir	RO	MIB2.1.2	Vender OID	1.3.6.1.4.1.258.5100. 200 (Fix)
3	sysUpTime	TimeTicks	RO	MIB2.1.3	The time since the network management portion of the system was last re-initialized. (Value x 10ms) It is not accumulation time. (0~4294967295) e.g. 10s is value of "1000", because 10s=1000x10ms	0
4	sysContact	DisplayString (size0..255)	RO	MIB2.1.4	the contact person for this managed node, information on how to contact this person	NULL *This item can be set from the ND400 menu on browser.
5	sysName	DisplayString (size0..255)	RO	MIB2.1.5	An administratively-assigned name for this managed node. This is the node's fully-qualified domain name.	NULL *This item can be set from the ND400 menu on browser.
6	sysLocation	DisplayString (size0..255)	RO	MIB2.1.6	The physical location of this node.	NULL *This item can be set from the ND400 menu on browser.
7	sysServices	Integer (0..127)	RO	MIB2.1.7	A value which indicates the set of services that this entity primarily offers.	64(Fix)

### 3.2. Interface

#### MIB2=1.3.6.1.2.1

No.	Object name	Syntax	Access	OID	Description	Factory default
8	ifNumber	Integer (0..127)	RO	MIB2.2.1	The number of LAN interface	7 (Fix)
9	ifIndex	InterfaceIndex	RO	MIB2.2.2.1.1.1	Index of LAN interface (1)	1 (Fix)
			RO	MIB2.2.2.1.1.2	Index of LAN interface (2)	2 (Fix)
			RO	MIB2.2.2.1.1.3	Index of LAN interface (3)	3 (Fix)
10	IfDescr	DisplayString (SIZE (0..255))	RO	MIB2.2.2.1.2.1	Information about LAN interface (1)	eth0 (Fix)
			RO	MIB2.2.2.1.2.2	Information about LAN interface (2)	eth1 (Fix)
			RO	MIB2.2.2.1.2.3	Information about LAN interface (3)	eth2 (Fix)
11	ifType	InterfaceIndex	RO	MIB2.2.2.1.3.1	The type of LAN interface (1)	ethernet-csmacd(6) (Fix)
			RO	MIB2.2.2.1.3.2	The type of LAN interface (2)	ethernet-csmacd(6) (Fix)
			RO	MIB2.2.2.1.3.3	The type of LAN interface (3)	ethernet-csmacd(6) (Fix)
12	ifPhyAddress	InterfaceIndex	RO	MIB2.2.2.1.6.1	MAC address of eth0	MAC address of device(Fix)
			RO	MIB2.2.2.1.6.2	MAC address of eth1	MAC address of device(Fix)
			RO	MIB2.2.2.1.6.3	MAC address of eth2	MAC address of device(Fix)

\*) Eth0 is a camera port in the back of ND400.

\*) Eth1 is a Client PC port in the back of ND400.

\*) Eth2 is a Maintenance port in the front of ND400.



### 3.3. IP

#### MIB2=1.3.6.1.2.1

No.	Object name	Syntax	Access	OID	Description	Factory default
13	ipAdEntAddr	IpAddress	RO	MIB2.4.20.1.1. ipv4address	IPv4 address of eth0	192.168.0.250
			RO	MIB2.4.20.1.1. ipv4address	IPv4 address of eth1	192.168.1.250
			RO	MIB2.4.20.1.1 .ipv4address	IPv4 address of eth2	192.168.2.250
14	ipAdEntIndex	Integer (0..127)	RO	MIB2.4.20.1.2 .ipv4address	Index of eth0 as IPv4 address	1
			RO	MIB2.4.20.1.2. ipv4address	Index of eth1 as IPv4 address	2
			RO	MIB2.4.20.1.2. ipv4address	Index of eth2 as IPv4 address	3
15	ipAdEntNetM ask	IpAddress	RO	MIB2.4.20.1.3 .ipv4address	Subnet mask of this index of IPv4 address	255.255.255.0
			RO	MIB2.4.20.1.3 .ipv4address	Subnet mask of this index of IPv4 address	255.255.255.0
			RO	MIB2.4.20.1.3. ipv4address	Subnet mask of this index of IPv4 address	255.255.255.0

## 4. Private MIB

### 4.1. Panasonic common MIB

#### Panasonic=1.3.6.1.4.1.258

No.	Object name	Syntax	Access	OID	Description	Factory default
1	panaNceEqG eneralVendor Name	DisplayString (SIZE (0..255))	RO	Panasonic.1.2.1.1	The vendor name of the net appliance	Panasonic
2	panaNceEqG eneralModel	DisplayString (SIZE (0..255))	RO	Panasonic.1.2.1.2	The model number of the net appliance	WJ-ND400
3	panaNceEqG eneralDayTim e	DateAndTime	RO	Panasonic.1.2.1.10	The current date and time set on the net appliance	
4	panaNceEqG eneralSerialN um	DisplayString (SIZE (0..255))	RO	Panasonic.1.2.1.13	The serial number of the net appliance	Serial number of device

#### 4.2. PssSSD common MIB (common)

PssSSD common MIB is shown as follows. Security common MIB is under 1.3.6.1.4.1.258.5100.

PssSSD =1.3.6.1.4.1.258.5100 ( PssSSD Common is described SSD.1 )

No.	Object name	Syntax	Access	OID	Description	Factory default
5	UserAccessCount	Integer	RO	PssSSD.1.1	The number of user that accesses device via network (0-99)	0
6	AlarmSumNum	Integer	RO	PssSSD.1.2	counting the number of alarm from device boot. counting from 0 to 4294967295 with 32bit. When exceed Max value, count from 0 again. *) Not counting emergency recording.	0

### 4.3. PssSSD common MIB (Access log)

Common log is 1.3.6.1.4.1.258.5100.3, and there are two kinds of log.

- \* Access log
- \* Network log

Network Disk Recorder has Event log and Trouble log in addition to the above Access log and Network log. Event log and Trouble log do not belong to Security common MIB, belong to HDR.

#### PssSSD=1.3.6.1.4.1.258.5100 (PssSSD is described PssSSD.1.3 )

No.	Object name	Syntax	Access	OID	Description	Factory default
7	AccLogNumber	Integer	RO	PssSSD.1.3.1	The number of Access log ( 0-100 )	0
8	AccLogIndex	Integer (1...100)	RO	PssSSD.1.3.2.1.1	Index of Access log	1-100
9	AccLogDayTime	DateAndTime	RO	PssSSD.1.3.2.1.2	The date and time of Access log "e.g. 02-10-29 12:00:00"	0
10	AccLogType	DisplayString (SIZE0...255)	RO	PssSSD.1.3.2.1.3	"Access type"- "User name" *There is a detail as follows.	0

\*Important: About Access log, Network log, Event log, and Trouble log

ND400 always acquires the maximum log number. (If one log remains, 0 padding and acquires the maximum number. )

“Access type “ - ”Username“

Access Type

Category	Access type	Access type No.
Login/Logout	Login	001
	Logout	002
	Config Login	007
	Config Logout	008
	Operation button push	407

Username

Username	Value
Browser access user	Registered username
PC access user	Registered username
FTP access user	Registered username
Non displayed	Display only Access type

#### 4.4. PssSSD common MIB ( Network log )

Network log is shown as follows.

##### PssSSD=1.3.6.1.4.1.258.5100 ( PssSSD is described PssSSD.1.3)

No.	Object name	Syntax	Access	OID	Description	Factory default
11	NetLogNumber	Integer	RO	SSD.1.3.3	The number of network log (1-1000)	0
12	NetLogIndex	Integer (1...1000)	RO	SSD.1.3.4.1.1	Index of network log	1-1000
13	NetLogDayTime	DisplayString (SIZE0...255)	RO	SSD.1.3.4.1.2	The date and time of network log "e.g. 02-10-29 12:00:00"	0
14	NetLogType	DisplayString (SIZE0...255)	RO	SSD.1.3.4.1.3	Network log type "Protocol type"- "Category"- "Log type" *There is a detail in next page.	0

##### 4.4.1. Protocol type of network log type

Protocol type	Protocol type No.	
	Value	Range
SMTP	00	00~99
FTP	01	00~99
DDNS	02	00~99
NTP	03	00~99
SNMP	04	00~99
DHCP	05	00~99
HTTP	06	00~99
LINK_ERROR_01	09	00~99
Other	99	00~99

#### 4.4.2. Network log category

Category	Category No.	
	Value	Range
Success	00	00~99
POP3 Error	01	00~99
SMTP Error	02	00~99
FTP Error	03	00~99
Connect Error	04	00~99
Internal Error	05	00~99

#### 4.4.3. Network log type

Network log type	Type No.	"Protocol type"- "Category"- "Log type"
	Value	
SMTPMAIL_SEND	00	00-00-00
<SMTP>POP3_ATTEST_ERR	01	00-01-01
<SMTP>SMTP_ATTEST_ERR	57	00-02-57
SMTPOP3ADD_ERR	02	00-05-02
SMTPOP3SVR_ERR	03	00-04-03
SMTPSVRADD_ERR	04	00-05-04
SMTPSVR_ERR	05	00-04-05
SMTPMAILFROM_ERR	06	00-02-06
SMTPRCPTTO_ERR	07	00-02-07
SMTPOTHER	08	00-05-08
FTPCLIENT_OK	09	01-00-09
FTPSVRFWD_OK	10	01-00-10
FTPSVRADD_ERR	11	01-03-11
FTPSVR_ERR	12	01-03-12
FTPUPLOAD_ERR	13	01-04-13
FTPPASSIVE_ERR	14	01-04-14
FTPLOGIN_FAULT	16	01-03-16

Network log type	Type No.	"Protocol type"- "Category"- "Log type"
	Value	
FTPOTHER	20	01-05-20
DDNSIPADDUPDATE_OK	21	02-00-21
DDNSSVRRES_ERR	22	02-04-22
DDNSUSERPASS_ERR	23	02-04-23
DDNSIPADDUPDATE_ERR	24	02-04-24
DDNSOTHER	25	02-05-25
NTPGETTIME_OK	26	03-00-26
NTPSVRADD_ERR	27	03-05-27
NTPTIME_INVALID	30	03-05-30
NTPSVRRES_ERR	32	03-05-32
SNMPUSERPASS_ERR	35	04-05-35
DHCPPIPAD_ADD_OK	38	05-00-38
DHCPPIPADUPDATE_ERR	40	05-04-40
<DHCP>DUPLICATE_IP_ADD	58	05-04-58
HTTPUSERPASS_ERR	45	06-04-45
HTTPDOWNLOAD_ERR	46	06-04-46
HTTPDREQUEST_ERR	47	06-04-47
LINK ERR	52	99-04-52

#### 4.5. Disk Recorder Category common MIB ( Event log )

Event log is shown as follows.

Event log is Disk Recorder Category (HdrCategory) common MIB as PssSSD common MIB.

##### HdrCategory = 1.3.6.1.4.1.258.5100.200

No.	Object name	Syntax	Access	OID	Description	Factory default
15	evtLogNumber	Integer	RO	HdrCategory.1.3	Event log (1-750)	0
16	evtLogIndex	Integer (1...750)	RO	HdrCategory.1.4.1	Index of Event log	1-750
17	evtLogDayTime	DisplayString (SIZE0...255)	RO	HdrCategory.1.4.2	The date and time of event log "e.g. 02-10-29 12:00:00"	0
18	evtLogType	Integer	RO	HdrCategory.1.4.3	"Event log type" - "Ch No./Alarm In port No."	0



#### 4.5.1. Event log type

Event log type	Type No.	Event type	Channel No.
	Value		Alarm out No,
TRM	2	02	Alarm In port number(1-32)
COM	3	03	Channel No,
EMR	4	04	0 fixed
SCD	5	05	Channel No,
CAM	8	08	Channel No,
EXT START	9	09	0 fixed
EXT STOP	10	10	0 fixed
SD START	12	12	0 fixed
SD ABORT	13	13	0 fixed
SD END	14	14	0 fixed

#### 4.5.2. Port number in the back of ND400

Type		Alarm port number
Port number in the back of ND400	No assignment	0
	Port number1	1
	Port number2	2
	Port number3	3
	Port number4	4
	Port number5	5
	Port number6	6
	Port number7	7
	Port number8	8
	Port number9	9
	Port number10	10
	Port number11	11
	Port number12	12
	Port number13	13
	Port number14	14
	Port number15	15
	Port number16	16
	Port number17	17
	Port number18	18
	Port number19	19
	Port number20	20
	Port number21	21
	Port number22	22
	Port number23	23
	Port number24	24
	Port number25	25
	Port number26	26
	Port number27	27
	Port number28	28
	Port number29	29
	Port number30	30
	Port number31	31
	Port number32	32

#### 4.6. Disk Recorder Category common MIB ( Error log )

Error log is Disk Recorder Category (HdrCategory) common MIB as PssSSD common MIB.

**HdrCategory=1.3.6.1.4.1.258.5100.200**

No.	Object name	Syntax	Access	OID	Description	Factory default
19	ErrLogNumber	Integer	RO	HdrCategory.1.5	The number of error log (1-100)	0
20	errLogIndex	Integer (1...100)	RO	HdrCategory.1.6.1.1 - HdrCategory.1.6.100.1	Index of Error log	1-100
21	errLogDayTime	DisplayString (SIZE0...255)	RO	HdrCategory.1.6.1.2 - HdrCategory.1.6.100.2	The date and time of Error log "e.g. 02-10-29 12:00:00"	0
22	errLogType	DisplayString (SIZE0...255)	RO	HdrCategory.1.6.1.3 - HdrCategory.1.6.100.3	Error log type "Error type"- "Unit number"- "Disk number/Channel No./Port No./Area /Fan number" *)reference as fellows	0

#### 4.6.1. Error log type

Category	Error type description	Error type	Unit number	Disk number/Channel No./Port No./Area /Fan number
HDD	HDD Write error	001	Unit number	0 fixed
	HDD Read error	002	Unit number	0 fixed
	HDD SMART warning	004	Unit number	Disk number (Both single mode and RAID mode)
	HDD hour meter warning	005	Unit number	Disk number
	Remain capacity warning	006	Area number	Remain capacity
	Event recording area capacity full	008	Area number	Remain capacity (0)
	Copy area capacity full	009	Area number	Remain capacity (0)
	Remove auto links (per HDD)	016	Unit number	Disk number
	RAID5 recovery failure	018	Unit number	0 fixed
	RAID6 recovery failure	034	Unit number	0 fixed
	Remove auto links (per unit)	019	Unit number	0 fixed
	RAID5 1 DOWN	026	Unit number	0 fixed
	RAID5 2 DOWN	027	Unit number	0 fixed
	RAID6 1 DOWN	035	Unit number	0 fixed
	RAID6 2 DOWN	036	Unit number	0 fixed
	RAID6 3 DOWN	037	Unit number	0 fixed
	Copy error	028	000 fixed	0 fixed
	Skip HDD (per HDD)	029	Unit number	Disk number
	Skip HDD (per unit)	038	Unit number	0 fixed
	Single mode format failure	030	001	Disk number
	RAID5 mode format failure	039	Unit number	0 fixed
	RAID6 mode format failure	040	Unit number	0 fixed
	HDD remove error	033	001	Disk number
Partition error (per HDD)	041	Unit number	Disk number	
Partition error (unit HDD)	042	Unit number	0 fixed	
Main unit	Fan error	101	Unit number	Fan number
	Thermal trouble	102	Unit number	0 fixed
	Power failure detection	103	000 fixed	0 fixed
	Power failure recovery	104	000 fixed	0 fixed
	Reboot by system error	106	000 fixed	0 fixed
Camera	NW camera error detection	203	000 fixed	Channel No.
	NW camera error recovery	204	000 fixed	Channel No.

	Camera SD memory card error	205	000 fixed	Channel No.
	Camera SD memory card starting write error	206	000 fixed	Channel No.
	Camera SD memory card ending write error	207	000 fixed	Channel No.
	Camera SD memory card list request error	208	000 fixed	Channel No.
	Camera SD memory card data obtainment failure	209	000 fixed	Channel No.
	Camera SD memory card data deletion failure	210	000 fixed	Channel No.
	Video loss detection	211	000 fixed	Channel No.
	Video loss recovery	212	000 fixed	Channel No.
	NW camera error detection (audio)	213	000 fixed	Channel No.
	NW camera error recovery (audio)	214	000 fixed	Channel No.
	Panasonic alarm DNS error	215	000 fixed	Channel No.
	Panasonic alarm response error	216	000 fixed	Channel No.
	Panasonic alarm other error	217	000 fixed	Channel No.
Data	Alteration detected	301	000 fixed	Channel No.

#### 4.6.2. Error log unit number

Type	Unit number
No Unit assignment	000
Main unit	001
Extension unit1	101
Extension unit2	102
Extension unit3	103
Extension unit4	104
Extension unit5	105

4.6.3. Error log Disk number/Channel number/Port number/Area number/Fan number

	Type	Disk No.
Disk No.	No Disk assignment	0 (Used on RAID5/RAID6)
	Main unit1	1
	Main unit2	2
	Main unit3	3
	Main unit4	4
	Main unit5	33
	Main unit6	34
	Main unit7	35
	Main unit8	36
	Main unit9	37
	Extension unit1-1	5
	Extension unit1-2	6
	Extension unit1-3	7
	Extension unit1-4	8
	Extension unit1-5	38
	Extension unit1-6	39
	Extension unit1-7	40
	Extension unit1-8	41
	Extension unit1-9	42
	Extension unit2-1	9
	Extension unit2-2	10
	Extension unit2-3	11
	Extension unit2-4	12
	Extension unit2-5	43
	Extension unit2-6	44
	Extension unit2-7	45
	Extension unit2-8	46
	Extension unit2-9	47
	Extension unit3-1	13
	Extension unit3-2	14
	Extension unit3-3	15
	Extension unit3-4	16
Extension unit3-5	48	
Extension unit3-6	49	
Extension unit3-7	50	

	Extension unit3-8	51
	Extension unit3-9	52
	Extension unit4-1	17
	Extension unit4-2	18
	Extension unit4-3	19
	Extension unit4-4	20
	Extension unit4-5	53
	Extension unit4-6	54
	Extension unit4-7	55
	Extension unit4-8	56
	Extension unit4-9	57
	Extension unit5-1	21
	Extension unit5-2	22
	Extension unit5-3	23
	Extension unit5-4	24
	Extension unit5-5	58
	Extension unit5-6	59
	Extension unit5-7	60
	Extension unit5-8	61
	Extension unit5-9	62

Type		Value	Reamrks
Channel No.	No Camera No, assignment	0	
	Camera1	1	
	Camera2	2	
	Camera3	3	
	Camera4	4	
	Camera5	5	
	Camera6	6	
	Camera7	7	
	Camera8	8	
	Camera9	9	
	Camera10	10	
	Camera11	11	
	Camera12	12	
	Camera13	13	
	Camera14	14	
	Camera15	15	
	Camera16	16	
	Camera17	17	
	Camera18	18	
	Camera19	19	
	Camera20	20	
	Camera21	21	
	Camera22	22	
	Camera23	23	
	Camera24	24	
	Camera25	25	
	Camera26	26	
	Camera27	27	
	Camera28	28	
	Camera29	29	
	Camera30	30	
	Camera31	31	
	Camera32	32	
	Camera33	33	
	Camera34	34	
	Camera35	35	



Camera36	36	
Camera37	37	
Camera38	38	
Camera39	39	
Camera40	40	
Camera41	41	
Camera42	42	
Camera43	43	
Camera44	44	
Camera45	45	
Camera46	46	
Camera47	47	
Camera48	48	
Camera49	49	
Camera50	50	
Camera51	51	
Camera52	52	
Camera53	53	
Camera54	54	
Camera55	55	
Camera56	56	
Camera57	57	
Camera58	58	
Camera59	59	
Camera60	60	
Camera61	61	
Camera62	62	
Camera63	63	
Camera64	64	

Type		Port number
Port number	No assignment number	0
	Camera port	1
	Client PC port	2
	Maintenance port	3

Type		Area number
Area number	No assignment area	0
	Normal area	1
	Event area	2
	Copy area	3

Type		Fan number
Fan number	No assignment fan	0
	Fan1	1
	Fan2	2
	Fan3	3
	Fan4	4
	Fan5	5

#### 4.7. Disk Recorder Category common MIB (HDD information)

HDD information is Disk Recorder Category (HdrCategory) common MIB as PssSSD common MIB.

**HdrCategory=1.3.6.1.4.1.258.5100.200**

No.	Object name	Syntax	Access	OID	Description	Factory default
1	HDD	String	RO	HdrCategory.1.13.1.1 - HdrCategory.1.13.1.58	HDD capacity(GB) or Link status Index is HDD number(1-62) (as same as RAID mode)  * Normal Disk: e.g. "500 GB" * ADD Disk : "ADD" * LOST Disk : "LOST" * REMOVE Disk: "REMOVE" * No Disk : "- GB" * Disk change: "*" * USED Disk : "USED" * ERROR Disk : "ERROR"	500
		Integer	RO	HdrCategory.1.13.11.1 - HdrCategory.1.13.11.58	HDD capacity(GB) or Link status Index is HDD number(1-62) (as same as RAID mode)  * Normal Disk: e.g. "500" * ADD Disk : "99999991" * LOST Disk : "99999992" * REMOVE Disk: "99999993" * No Disk : "99999999" * Disk change : "11111111" * USED Disk : "22222222" * ERROR Disk : "99999994"	

No.	Object name	Syntax	Access	OID	Description	Factory default
2	HourMeterXX	String	RO	HdrCategory.1.13.2.1 - HdrCategory.1.13.2.58	The operating time(hour) of the HDD. (1-99999) Index is HDD number(1-62) (as same as RAID mode)  * Normal Disk: e.g. "125 h" * Other : "- h"	0 h
		Integer	RO	HdrCategory.1.13.12.1 - HdrCategory.1.13.12.58	The operating time (hour) of the HDD. (1-99999) Index is HDD number(1-62) (as same as RAID mode)  * Normal Disk: e.g. "125" * Other : "99999999"	0 h

No.	Object name	Syntax	Access	OID	Description	Factory default
3	HDDGList	String	RO	HdrCategory.1.13.3.1 - HdrCategory.1.13.3.58	The number of G-List (Hex:0000-FFFF) Index is HDD number(1-62) (as same as RAID mode) * Normal Disk or REMOVE Disk :e.g. "001A" Hex and four digit * Other :"-"	0
		Integer	RO	HdrCategory.1.13.13.1 - HdrCategory.1.13.13.58	The number of G-List (Hex:0000-FFFF) Index is HDD number(1-62) (as same as RAID mode) * Normal Disk or REMOVE Disk :e.g."00000026" Decimal and eight digit * Other :"-"	0

No.	Object name	Syntax	Access	OID	Description	Factory default
4	HDDSmart	String	RO	HdrCategory.1.13.4.1 - HdrCategory.1.13.4.58	HDD smart warning Index is HDD number(1-62) (as same as RAID mode) * Normal Disk or REMOVE Disk : Not warning "0" : Warning "1" * Other :"-"	0
		Integer	RO	HdrCategory.1.13.14.1. - HdrCategory.1.13.14.58	HDD smart warning Index is HDD number(1-62) (as same as RAID mode) * Normal Disk or REMOVE Disk : Not warning "0" : Warning "1" * Other : "99999999"	0

No.	Object name	Syntax	Access	OID	Description	Factory default
5	HDDSingleRaid	String	RO	HdrCategory.1.13.5.1 - HdrCategory.1.13.5.58	HDD operating status Index is HDD number(1-62) (as same as RAID mode) * Normal Disk or REMOVE Disk : Single mode "0" : RAID5/6 mode normal "1" : RAID5/6 mode down HDD "2" * Other :"-"	0
		Integer	RO	HdrCategory.1.13.15.1 - HdrCategory.1.13.15.58	HDD operating status Index is HDD number(1-62) (as same as RAID mode) * Normal Disk or REMOVE Disk : Single mode "0" : RAID5/6 mode normal "1" : RAID5/6 mode down HDD "2" * Other : "99999999"	0

#### 4.8. Disk Recorder Category common MIB (Reboot status)

Reboot status is Disk Recorder Category (HdrCategory) common MIB as PssSSD common MIB

**HdrCategory=1.3.6.1.4.1.258.5100.200**

No.	Object name	Syntax	Access	OID	Description	Factory default
1	rebootRequest	Integer	RO	HdrCategory.1.14	It is shown whether reboot is necessary. 0:Normal state (reboot not need) 1.State of reboot demand (Fixed 0 in WJ-ND400)	0

#### 4.9. Disk Recorder Category common MIB (Camera connection status)

Camera connection status is Disk Recorder Category (HdrCategory) common MIB as PssSSD common MIB

**HdrCategory=1.3.6.1.4.1.258.5100.200**

No.	Object name	Syntax	Access	OID	Description	Factory default
1	CamSvncState	Integer	RO	HdrCategory.1.15.1 -- HdrCategory.1.15.64	0: connect 1: Not connect  Index 1-64 is Camera channel.	-

#### 4.10. Disk Recorder Category common MIB ( Temperature )

Temperature is Disk Recorder Category (HdrCategory) common MIB as PssSSD common MIB.

**HdrCategory=1.3.6.1.4.1.258.5100.200**

No.	Object name	Syntax	Access	OID	Description
1	Temperature	String	RO	HdrCategory.1.16	Temperature of ND400 (The second place of the decimal point is rounded off) * J/G model :degrees centigrade * P model :degrees Fahrenheit e.g. 38.4 deg C 101.1 deg F
		Integer	RO	HdrCategory.1.16.2.1	* J/G model Temperature of ND400 (The first place of the decimal point is rounded off) e.g.:38.4 deg C -> 38
		Integer	RO	HdrCategory.1.16.2.2	* J/G model Temperature of ND400 (The second of the decimal point is rounded off, and do 10 times) e.g.:38.39 deg C -> 384
		Integer	RO	HdrCategory.1.16.3.1	* P model Temperature of ND400 (The first place of the decimal point is rounded off) e.g.:101.1 deg F -> 101
		Integer	RO	HdrCategory.1.16.3.2	* P model Temperature of ND300 (The second of the decimal point is rounded off, and do 10 times) e.g.:101.09eg F -> 1011



## 5. Community

In setup menu of WJ-ND400, the user can set the community name.

The default value is "NULL".

## 6. WJ-ND400 SNMP settings

The capital letter and the small letter are distinguished.

WJ-ND400 SNMP settings	Object name	Description	Factory default	Max length
Community		Community name	NULL	32
System name	SysName	Name for this managed node. This is the node's fully-qualified domain name.	NULL	255
Location	Sys Location	The physical location of this node.	NULL	255
Contact	SysContact	the contact person for this managed node, information on how to contact this person	NULL	255

## 7. MIB under Enterprises

It is fix value.

OID	Name	Description
258	Panasonic	Panasonic
5100	PssSSD	System Solutions Company Security & Sound Systems Business Unit
200	HdrCategory	Disk Recorder Category