EasyCube-S Software Guide

Version 3.0

Tüm Elektronik Mühendislik

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CAUTION

The EasyCube-S should only be serviced by qualified personnel.

Observe precautions for handling electrostatic sensitive devices when setting up or operating the EasyCube-S.

WARNING

Disconnect all power to the EasyCube-S before maintenance

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COMMUNICATION PROTOKOL

EasyCube TCP/IP Protocol

Symbols:

Special character symbols are based on standard ASCII notation:

Symbol	Decimal	Hexadecimal	Meaning
<LF>	10	0x0A	Line Feed
<CR>	13	0x0D	Carriage Return

Commands:

Description		Get device model.
Command		DVM<CR><LF>
Response		{DVM,<model>}
Example	**Request**	DVM<CR><LF>
	Response	{DVM,EasyCube-1.6}

Description		Get a simple measurements data record. This will get the data of the latest measurement done.
Command		MSR<CR><LF>
Response		<length>,<width>,<height>,<weight>
Example	**Request**	MSR<CR><LF>
	Response	30,50,60,1.6

Description		Get a full measurements data record. This will get the data of the latest measurement done.
Command		MFR<CR><LF>
Response		{MFR,DSN,<Device-SN>,P,<package-number>,T,<Date-time>,L,<length>,LU,<length-unit>,W,<width>,WU,<width-unit>,H,<height>,HU,<height-unit>,V,<real-volume>,VU,<real-volume-unit>,WT,<weight>,WTU,<weight-unit>,DWT,<dimensional-weight>,DWTU,<dimensional-weight-unit>,DWTF,<dimensional-weight-factor>,DWTFU,<dimensional-weight-factor-unit>,DWTFT,<dimensional-weight-factor-type>,TAR,<tare-height>,TARU,<tare-height-unit>,TARF,<tare-enabled-flag>,B,<barcode>}
Example	**Request**	MFR<CR><LF>
	Response	{M,DSN,00000000,P,1115,T,2021-06-02 13:03:36,L,022.4,LU,cm,W,008.9,WU,cm,H,018.1,HU,cm,V,03251.4,VU,cm3,WT,000.000,WTU,kg,DWT,000.908,DWTU,kg,DWTF,4000.000,DWTFU,cm3/kg,DWTFT,DOM,TAR,000.0,TARU,cm,TARF,DIS,B,000000000}

Description		Get a measured image. This will get the scene image of the latest measurement done.
Command		I<CR><LF>
Response		{I,S,<image-scale>,ID,<Image-Base64-Format>}
Example	**Request**	I<CR><LF>
	Response	{I,S,25,ID,<Image-Base64-Data>}

Description	Start the measure window.
Command	SMW<CR><LF>
Response	No response

Example	**Request**	SMW<CR><LF>
	Response	No response

Description		Close the measure window.
Command		CMW<CR><LF>
Response		No response
Example	**Request**	CMW<CR><LF>
	Response	No response

Description		Send measure. (like pressing the measure button).
Command		M<CR><LF>
Response		No response
Example	**Request**	M<CR><LF>
	Response	No response

Description		Restart the device.
Command		R<CR><LF>
Response		No response
Example	**Request**	R<CR><LF>
	Response	No response

Description		Shutdown the device.
Command		SH<CR><LF>
Response		No response
Example	**Request**	SH<CR><LF>
	Response	No response

Description		Get the weighing scale setting.
Command		SS<CR><LF>
Response		{SS,P<scale-port>,R,<baud-rate>,T,<scale-type>,E,<scale-enabled>}
Example	**Request**	SS<CR><LF>
	Response	{SS,P,/dev/ttyUSB0,R,115200,T,0,E,0}

Description		Set the weighing scale setting.
Command		SS,<scale-port>,<baud-rate>,<scale-type>,<scale-enabled><CR><LF>
Response		{SS,P,<scale-port>,R,<baud-rate>,T,<scale-type>,E,<scale-enabled>}
Example	**Request**	SS,/dev/ttyUSB0,115200,1,0
	Response	{SS,P,/dev/ttyUSB0,R,115200,T,1,E,0}

Description	Get the network setting.
Command	NS<CR><LF>

Response		**If ethernet network is used:** {ENS,T,Ethernet,IP,<IP-adress>,M,<mask>,G,<gateway>,DHCP,<dhcp-enabled>,DNS,<dns>,DNSA,<auto-dns>} **If wifi network is used:** {WNS,T,Ethernet,IP,<IP-adress>,M,<mask>,G,<gateway>,DHCP,<dhcp-enabled>,DNS,<dns>,DNSA,<auto-dns,SSID,<network-id>}
Example	**Request**	NS<CR><LF>
	Response	{ENS,T,Ethernet,IP,10.0.0.164,M,255.255.255.0,G,10.0.0.1,DHCP,0,DNS,10.0.0.10,8.8.8.8,8.8.4.4,DNSA,0}

Description		Get the TCP/IP communication setting.
Command		TCPS<CR><LF>
Response		{TCPS,P,<port>,PR,<protocol-type>,IS,<image-scale>,DAS,<data-auto-send-enabled>,IAS,<image-auto-send-enabled>,E,<enabled>}
Example	**Request**	TCPS<CR><LF>
	Response	{TCPS,P,9990,PR,0,IS,25,DAS,1,IAS,0,E,1}

Description		Set the TCP/IP communication setting.
Command		TCPS,<port>,<protocol-type>,<image-scale>,<data-auto-send-enabled>,<image-auto-send-enabled>,<enabled><CR><LF>
Response		{TCPS,P,<port>,PR,<protocol-type>,IS,<image-scale>,DAS,<data-auto-send-enabled>,IAS,<image-auto-send-enabled>,E,<enabled>}
Example	**Request**	TCPS,9990,0,25,1,0,1<CR><LF>
	Response	{TCPS,P,9990,PR,0,IS,25,DAS,1,IAS,0,E,1}

Description	Get device information.

Command		DVI<CR><LF>
Response		{DVI,SN,<Device-SN>,M,<model>,Y,<year>,S,<sensor-type>,V,<version>}
Example	**Request**	DVI<CR><LF>
	Response	{DVI,SN,00000000,M,EasyCube-1.6,Y,2021,S,RealSense-D415,V,3.0}

Description		Get the Aibi saved measurement data record.
Command		MAR,<package-number><CR><LF>
Response		{MAR,DSN,<Device-SN>,P,<package-number>,T,<Date-time>,L,<length>,LU,<length-unit>,W,<width>,WU,<width-unit>,H,<height>,HU,<height-unit>,WT,<weight>,WTU,<weight-unit>,DWT,<dimensional-weight>,DWTU,<dimensional-weight-unit>,DWTF,<dimensional-weight-factor>,DWTFU,<dimensional-weight-factor-unit>,DWTFT,<dimensional-weight-factor-type>,TAR,<tare-height>,TARU,<tare-height-unit>,TARF,<tare-enabled-flag>,B,<barcode>,VAL,<valed>}
Example	**Request**	MAR,2<CR><LF>
	Response	{MAR,DSN,00000000,P,2,T,2021-07-12 14:19:13,L,16.9972,LU,cm,W,9.05339,WU,cm,H,23.4747,HU,cm,WT,0,WTU,kg,DWT,0.903084,DWTU,kg,DWTF,4000,DWTFU,cm3/kg,DWTFT,1,TAR,7,TARU,cm,TARF,0,B,00000000,VAL,1}

Description		Get the Aibi saved thumbnail measurement image.
Command		MAI,<package-number><CR><LF>
Response		{MAI,ID,<Image-Base64-Format>}
Example	**Request**	MAI,2<CR><LF>
	Response	{I,ID,<Image-Base64-Data>}

Description		Switch to weight only mode during measure.
Command		WO<CR><LF>
Response		No response
Example	**Request**	WO<CR><LF>
	Response	No response

Description		Set the weighing scale to zero during measure.
Command		SZ<CR><LF>
Response		No response
Example	**Request**	SZ<CR><LF>
	Response	No response

Description		Get the ethernet network setting.
Command		ENS<CR><LF>
Response		{ENS,T,Ethernet,IP,<IP-adress>,M,<mask>,G,<gateway>,DHCP,<dhcp-enabled>,DNS,<dns>,DNSA,<auto-dns>}
Example	**Request**	ENS<CR><LF>
	Response	{ENS,T,Ethernet,IP,10.0.0.164,M,255.255.255.0,G,10.0.0.1,DHCP,0,DNS,10.0.0.10,DNSA,0}

Description	Set the ethernet network setting.

Command		ENS,<IP-adress>,<mask>,<gateway>,<dhcp-enabled>,<dns>,<auto-dns><CR><LF>
Response		{ENS,T,Ethernet,IP,<IP-adress>,M,<mask>,G,<gateway>,DHCP,<dhcp-enabled>,DNS,<dns>,DNSA,<auto-dns>}
Example	**Request**	ENS,10.0.0.164,255.255.255.0,10.0.0.1,0,,10.0.0.10,0<CR><LF>
	Response	{ENS,T,Ethernet,IP,10.0.0.164,M,255.255.255.0,G,10.0.0.1,DHCP,0,DNS,10.0.0.10,DNSA,0}

Description		Get the wifi network setting.
Command		WNS<CR><LF>
Response		{WNS,T,Ethernet,IP,<IP-adress>,M,<mask>,G,<gateway>,DHCP,<dhcp-enabled>,DNS,<dns>,DNSA,<auto-dns,SSID,<network-id>}
Example	**Request**	WNS<CR><LF>
	Response	{WNS,T,WIFI,IP,192.168.228.77,M,255.255.255.0,G,192.0.0.1,DHCP,1,DNS,8.8.8.8,DNSA,1,SSID,TEM-SS}

Description		Set the wifi network setting.
Command		WNS,<IP-adress>,<mask>,<gateway>,<dhcp-enabled>,<dns>,<auto-dns>,<network-id>,<network-password><CR><LF>
Response		{WNS,T,Ethernet,IP,<IP-adress>,M,<mask>,G,<gateway>,DHCP,<dhcp-enabled>,DNS,<dns>,DNSA,<auto-dns,SSID,<network-id>}
Example	**Request**	WNS,192.168.228.77,255.255.255.0,192.0.0.1,0,8.8.8.8,0,TEM-SS,pass1<CR><LF>
	Response	{WNS,T,WIFI,IP,192.168.228.77,M,255.255.255.0,G,192.0.0.1,DHCP,1,DNS,8.8.8.8,DNSA,1,SSID,TEM-SS}

Description	Get the network type and activate the setting.

Command		NT,<type><CR><LF>
Response		{NT,<type>}
Example	**Request**	NT,0<CR><LF>
	Response	{NT,0}

Description		Get the measure setting.
Command		MS<CR><LF>
Response		{MS,US,<Unit-system>,MM,<measure-mode>,IS,<image-source>,RV,real-volume-enable}
Example	**Request**	MS<CR><LF>
	Response	{MS,US,0,MM,0,IS,0,RV,1}

Description		Set the measure setting.
Command		MSUS,<Unit-system>,<measure-mode>,<image-source>,real-volume-enable<CR><LF>
Response		{MS,US,<Unit-system>,MM,<measure-mode>,IS,<image-source>,RV,real-volume-enable}
Example	**Request**	MS,0,0,0,1<CR><LF>
	Response	{MS,US,0,MM,0,IS,0,RV,1}

Description	Get the device time and date.
Command	DT<CR><LF>
Response	{DT,D,<year>-<month>-<day>,T,<hour>:<min>:<seconds>}

Example	**Request**	DT<CR><LF>
	Response	{DT,D,2021-08-06,T,20:35:15}

Description		Set the device time and date.
Command		DT,<year>-<month>-<day>,<hour>:<min>:<seconds><CR><LF>
Response		{DT,D,<year>-<month>-<day>,T,<hour>:<min>:<seconds>}
Example	**Request**	DT,2021-09-10,15:45:30<CR><LF>
	Response	{DT,D,2021-09-10,T,15:45:30}

Description		Get the device time and date setting.
Command		DTS<CR><LF>
Response		{DTS,TZ,<time-zone>,AT,<auto-date-time-enabled>}
Example	**Request**	DTS<CR><LF>
	Response	{DTS,TZ,Etc/GMT-3 (+03, +0300),AT,0}

Description		Set the device time and date setting.
Command		DTS,<time-zone>,<auto-date-time-enabled>,<CR><LF>
Response		{DTS,TZ,<time-zone>,AT,<auto-date-time-enabled>}
Example	**Request**	DTS,+03,1<CR><LF>
	Response	{DTS,TZ,Etc/GMT-3 (+03, +0300),AT,1}

Description		Get the trae setting.
Command		TRS<CR><LF>
Response		{TRS,H,<tare-height>,E,<enabled>}
Example	**Request**	TRS<CR><LF>
	Response	{TRS,H,7,E,0}

Description		Set the trae setting.
Command		TRS,<tare-height>,<enabled>}<CR><LF>
Response		{TRS,H,<tare-height>,E,<enabled>}
Example	**Request**	TRS,5,0<CR><LF>
	Response	{TRS,H,5,E,0}

Description		Get the dimensional weight factor setting.
Command		DWFS<CR><LF>
Response		{DWFS,IM,<international-metric-unit-dimensional-weight-factor>,IE,<international-english-unit-dimensional-weight-factor>,LM,<local-metric-unit-dimensional-weight-factor>,LE,<local-english-unit-dimensional-weight-factor>,T,<type>}
Example	**Request**	DWFS<CR><LF>
	Response	{DWFS,IM,5000,IE,50,LM,4000,LE,40,T,1}

Description	Set the dimensional weight factor setting.

Command		DWFS,<international-metric-unit-dimensional-weight-factor>,<international-english-unit-dimensional-weight-factor>,<local-metric-unit-dimensional-weight-factor>,<local-english-unit-dimensional-weight-factor>,<type><CR><LF>
Response		{DWFS,IM,<international-metric-unit-dimensional-weight-factor>,IE,<international-english-unit-dimensional-weight-factor>,LM,<local-metric-unit-dimensional-weight-factor>,LE,<local-english-unit-dimensional-weight-factor>,T,<type>}
Example	**Request**	DWFS,5000,50,4000,40,1<CR><LF>
	Response	{DWFS,IM,5000,IE,50,LM,4000,LE,40,T,1}

Description		Get the measure area setting.
Command		MAS<CR><LF>
Response		{MAS,XMAX,<max-x>,XMIN,<min-x>,YMAX,<max-y>,YMIN,<min-y>}
Example	**Request**	MAS<CR><LF>
	Response	{MAS,XMAX,0.22,XMIN,-0.14,YMAX,0.18,YMIN,-0.2}

Description		Set the measure area setting.
Command		MASX,<max-x>,<min-x>,<max-y>,<min-y><CR><LF>
Response		{MAS,XMAX,<max-x>,XMIN,<min-x>,YMAX,<max-y>,YMIN,<min-y>}
Example	**Request**	MAS,0.22,-0.14,0.18,-0.2<CR><LF>
	Response	{MAS,XMAX,0.22,XMIN,-0.14,YMAX,0.18,YMIN,-0.2}

Description		Get the measure image stream setting.
Command		MISS<CR><LF>
Response		{MISS,E,<stream-enabled>,T,<image-update-time>}
Example	**Request**	MISS<CR><LF>
	Response	{MISS,E,1,T,3000}

Description		Set the measure image stream setting.
Command		MISS,<stream-enabled>,<image-update-time><CR><LF>
Response		{MISS,E,<stream-enabled>,T,<image-update-time>}
Example	**Request**	MISS,1,2000<CR><LF>
	Response	{MISS,E,1,T,2000}

Description		Invalid command response.
Command		
Response		?<CR><LF>
	Request	-----

Example	Response	?<CR><LF>

Put table to explain all index and flags valus

EasyCube Web API

EASYAPI API DESCRIPTIONS:

OPTIONS	
API	DESCRIPTION
/scale	Weighing scale options (Enabled, Scale type, Serial port, Baud rate)
/tare	Tare options (Enabled, Height)
/display	What will be presented on display
/meas_config	Measurement confirmation options (Mode, Unit, Real Volume Enabled)
/dim_factor	National and international measurement calculation values
/tcps_config	TCP/IP server configuration parameters
/iftype	Network interface type information (0:Wired, 1:Wireless)
/if_config/eth0	Wired network configuration parameters
/if_config/wlan0	Wireless network configuration parameters
/datetime	Auto Date&Time, Date, Time, Zone informations of the system
/wifi_scan	Scans the wireless networks in your area and displays information about them including network name (SSID)
/websconfig	Web API server configuration parameters

MEASUREMENT	
API	DESCRIPTION
/measure	It provides to trigger the measurement. If ‘Auto Send Measurement’ option activated, it returns the measurement without image. If not, just trigger the measurement, does not return anything
/last_measure	Returns last measurement without image
/cap_measure	It provides to trigger the measurement. If ‘Auto Send Measurement’ or ‘Auto Send Image’ option activated, it returns measurement with image. If not, just trigger the measurement, does not return anything
/image	Returns image
/last_cap_measure	Returns last measurement & image
/alibi/{packnum}	Query data measurement record with desired package number (e.g /alibi/5)

INFORMATION & SYSTEM	
API	DESCRIPTION
/devinfo	Device information includes Serial number, Device model, Year, Sensor, Software Version, MDMI
/errorlog	Access error logs with the following contents; Date&Time, Code, Message

/version	API version information with web api name
/reboot	System reboot command, provides to reboot the system
/shutdown	System shotdown command, provides to shutdown the system
Please refer to Easycube Technical Manual for detailed description.	

EASYAPI API GET/POST COMMANDS
This document contains all supported apis with example http requests. *If the server is running in secure mode (https), pass "-k" argument to sample command.*

HTTP	curl localhost:8080/scale -X GET
HTTPS	curl -k https://localhost:8080/scale -X GET

/scale	Weighting Scale Options		
GET/POST	Enabled	bool	
	ScaleType	int	0: TEM, 1: POS, 2: NEW_TEM
	SerialPort	string	
	Baudrate	int	

[GET]	curl localhost:8080/scale -X GET

200 OK	{
	"Enabled" : false,
	"ScaleType" : 0,
	"SerialPort": "/dev/ttyUSB0",
	"BaudRate" : 115200
	}

500
Internal
Server Error
	{
	"error": "error occured when reading file"
	}

[POST]	curl localhost:8080/scale -H "Content-Type: application/json" -d '{ "Enabled" : true, "ScaleType" : 0, "SerialPort": "/dev/ttyUSB0", "BaudRate" : 38400 }'

200 OK	{
	"Enabled" : true,
	"ScaleType" : 0,
	"SerialPort": "/dev/ttyUSB0",
	"BaudRate" : 38400
	}

500
Internal
Server Error
	{
	"error": "unable to decode json request"
	}

/tare	Tare		
GET/POST	Enabled	bool	
	Height	float	[cm]

[GET]	curl localhost:8080/tare -X GET

200 OK	{
	"Enabled": false,
	"Height" : 3.1
	}

[POST]	curl localhost:8080/tare -H "Content-Type: application/json" -d '{ "Enabled": true, "Height" : 2.5 }'

200 OK	{
	"Enabled": true,
	"Height" : 2.5
	}

/display	Display		
GET/POST	ImgSource	int	0:Color, 1:IR, 2:Depth, 3: Point Cloud

[GET]	curl localhost:8080/display -X GET

200 OK	{
	"ImgSource": 2
	}

[POST]	curl localhost:8080/display -H "Content-Type: application/json" -d '{ "ImgSource": 0 }'

200 OK	{
	"ImgSource": 0
	}

/datetime	Date/Time		
GET/POST	AutoDatetime	bool	
	Date	string	yyyy/mm/dd
	Time	string	hh:mm:ss
	Zone	int	-14 .. 12
[GET]	curl localhost:8080/datetime -X GET		

200 OK	{
	"AutoDatetime": true,
	"Date" : "2021/07/26",
	"Time" : "12:13:44",
	"Zone" : 3
	}		

[POST]	curl localhost:8080/datetime -H "Content-Type: application/json" -d '{ "AutoDatetime": false, "Date" : "2021/07/26", "Time" : "12:13:44", "Zone" : 2 }'

200 OK	{
	"AutoDatetime": true,
	"Date": "2021/07/26",
	"Time": "12:13:44",
	"Zone": 26
	}

/meas_config	Measurement Confirmation Options		
GET/POST	Mode	int	
	0	int	auto
	1	int	barcode
	2	int	press button
	3	int	scale
	4	int	continuous
	Unit	string	metric/imperial
	RealVolumeEnable	bool	

[GET]	curl localhost:8080/meas_config -X GET

200 OK	{
	"Mode": 3,
	"Unit": "imperial",
	"RealVolumeEnable": true
	}

[POST]	curl localhost:8080/meas_config -H "Content-Type: application/json" -d '{ "Mode": 3, "Unit": "metric",

200 OK	{
	"Mode": 3,
	"Unit": "metric",
	"RealVolumeEnable": false
	}

/tcps_config	TCP/IP Server Settings		
GET/POST	Enabled	bool	
	Port	int	
	ImgScale	int	0: 100%, 1: 75%, 2: 50%, 3: 25%
	Protocol	int	0: EasyCube, 1: Cubiscan, 2: QubeVu
	MeasAutoSend	bool	
	ImgAutoSend	bool	

[GET]	curl localhost:8080/tcps_config -X GET

200 OK	{
	"Enabled": true,
	"Port": 9999,
	"ImgScale": 2,
	"Protocol": 0,
	"MeasAutoSend": false,
	"ImgAutoSend" : false
	}

[POST]	curl localhost:8080/tcps_config -H "Content-Type: application/json" -d ' { "Enabled": false, "Port": 8989, "ImgScale": 2, "Protocol": 0, "MeasAutoSend": false, "ImgAutoSend" : false }'

200 OK	{
	"Enabled": false,
	"Port": 8989,
	"ImgScale": 2,
	"Protocol": 0,
	"MeasAutoSend": false,
	"ImgAutoSend" : false
	}

/dim_factor	Dimensional Weight Factor		
GET/POST	Type	string	international/domestic
	MetricVal_Int	float	cm3/kg
	MetricVal_Dom	float	
	ImperialVal_Int	float	in3/lb
	ImperialVal_Dom	float	

[GET]	curl localhost:8080/dim_factor -X GET

200 OK	{
	"Type" : "international",
	"MetricVal_Int" : 6000,
	"MetricVal_Dom" : 1,
	"ImperialVal_Int": 3000,
	"ImperialVal_Dom": 50
	}

[POST]	curl localhost:8080/dim_factor -H "Content-Type: application/json" -d '{ "Type" : "domestic", "MetricVal_Int" : 6000, "MetricVal_Dom" : 1, "ImperialVal_Int": 3000, "ImperialVal_Dom": 50 }'

200 OK	{
	"Type" : "domestic",
	"MetricVal_Int" : 6000,
	"MetricVal_Dom" : 1,
	"ImperialVal_Int": 3000,
	"ImperialVal_Dom": 50
	}

/wifi_scan	Wifi List		
GET	SSID	string[]	

[GET]	curl localhost:8080/wifi_scan -X GET

200 OK	{
	"SSID": [
	"Android-AP",
	"VodafoneNet-5PM3YC",
	"Superonline-X4332",
	"TurkTelekom_TE05D"
	]
	}

/measure	Trig Data Measurement w/o Image		
/last_measure	Get Last Measurement w/o Image		
GET	DevID	string	
	PackageNumber	string	
	TimeStamp	string	
	PackageHeight	float	
	PackageHeightUnit	string	
	PackageLenght	float	
	PackageLenghtUnit	string	
	PackageWidth	float	
	PackageWidthUnit	string	
	PackageWeight	float	
	PackageWeightUnit	string	
	RealVolume	float	
	RealVolumeUnit	string	
	DimWeight	float	
	DimWeightUnit	string	
	DimWeightFactor	float	
	DimWeightFactorUnit	string	
	DimWeightFactorType	int	
	Barcode	string	
	TareEnabled	bool	
	TareHeight	float	
	TareHeightUnit	string	
NOTE			

[GET]	curl localhost:8080/measure -X GET
	curl localhost:8080/alibi/419 -X GET
200 OK	{ "DevID": "00000000",

	"PackageNumber": "419", "TimeStamp": "2021-07-26 16:18:04", "PackageHeight": 23.5, "PackageHeightUnit": "cm", "PackageLenght": 17.299999237060547, "PackageLenghtUnit": "cm", "PackageWidth": 8.600000381469727, "PackageWidthUnit": "cm", "PackageWeight": 3521, "PackageWeightUnit": "cm3", "RealVolume": 0, "RealVolumeUnit": "", "DimWeight": 0, "DimWeightUnit": "kg", "DimWeightFactor": 0.879, "DimWeightFactorUnit": "kg", "DimWeightFactorType": 0, "Barcode": "cm", "TareEnabled": false, "TareHeight": 0, "TareHeightUnit": "DOM" }

/cap_measure	Trig Data Measurement w/ Image		
/last_cap_measure	Get Last Measurement w/ Image		
/alibi/{packnum}	Query Data Measurement Log w/ Image		
GET	DevID	string	
	PackageNumber	string	
	TimeStamp	string	
	PackageHeight	float	
	PackageHeightUnit	string	
	PackageLenght	float	
	PackageLenghtUnit	string	
	PackageWidth	float	
	PackageWidthUnit	string	
	PackageWeight	float	
	PackageWeightUnit	string	
	RealVolume	float	
	RealVolumeUnit	string	
	DimWeight	float	
	DimWeightUnit	string	
	DimWeightFactor	float	
	DimWeightFactorUnit	string	
	DimWeightFactorType	int	

	Barcode	string	
	TareEnabled	bool	
	TareHeight	float	
	TareHeightUnit	string	
	ImgBase64	string	

[GET]	curl localhost:8080/cap_measure -X GET
	curl localhost:8080/alibi/419 -X GET

200 OK	{
	"DevID": "00000000",
	"PackageNumber": "410",
	"TimeStamp": "2021-07-26 16:06:27",
	"PackageHeight": 23.5,
	"PackageHeightUnit": "cm",
	"PackageLenght": 17.200000762939453,
	"PackageLenghtUnit": "cm",
	"PackageWidth": 8.699999809265137,
	"PackageWidthUnit": "cm",
	"PackageWeight": 3552.39990234375,
	"PackageWeightUnit": "cm3",
	"RealVolume": 0,
	"RealVolumeUnit": "",
	"DimWeight": 0,
	"DimWeightUnit": "kg",
	"DimWeightFactor": 0.877,
	"DimWeightFactorUnit": "kg",
	"DimWeightFactorType": 0,
	"Barcode": "cm",
	"TareEnabled": false,
	"TareHeight": 0,
	"TareHeightUnit": "DOM",
	"ImgBase64": *"<Base64 Formatted Image Data>"*
	}

/image	Image Capture		
GET	ImgBase64	string	

[GET]	curl localhost:8080/image -X GET

200 OK	{
	"ImgBase64": *"<Base64 Formatted Image Data>"*
	}

/iftype	Network Interface Type		
GET/POST	Type	int	0: Wired, 1: Wireless

[GET]	curl localhost:8080/iftype -X GET

200 OK	{
	"Type": 1
	}

/if_config/eth0	Wired Network Settings		
GET/POST	DHCP	bool	
	Ip	string	
	Netmask	string	
	Gateway	string	
	Dns	string	Comma Seperated
	AutoDns	bool	

[GET]	curl localhost:8080/ifconfig/eth0 -X GET

200 OK	{
	"DHCP" : false,
	"Ip" : "10.0.0.69",
	"Netmask": "255.255.0.0",
	"Gateway": "10.0.0.0",
	"Dns" : "10.0.0.10,8.8.8.8,8.8.4.2",
	"AutoDns": false
	}

[POST]	curl localhost:8080/ifconfig/eth0 -H "Content-Type: application/json" -d '{ "DHCP" : true, "Ip" : "10.0.0.69", "Netmask": "255.255.0.0", "Gateway": "10.0.0.0", "Dns" : "10.0.0.10,8.8.8.8,8.8.4.2", "AutoDns": false }'

200 OK	{
	"DHCP" : true,
	"Ip" : "10.0.0.69",
	"Netmask": "255.255.0.0",
	"Gateway": "10.0.0.0",
	"Dns" : "10.0.0.10,8.8.8.8,8.8.4.2",
	"AutoDns": false
	}

/if_config/eth0	Wired Network Settings		
GET/POST	DHCP	bool	
	Ip	string	
	Netmask	string	
	Gateway	string	
	Dns	string	Comma Seperated

	AutoDns	bool	
	SSID	string	
	Password	string	

[GET]	curl localhost:8080/ifconfig/wlan0 -X GET

200 OK	{
	"DHCP" : true,
	"Ip" : "192.168.228.77",
	"Netmask" : "255.255.255.0",
	"Gateway" : "192.0.0.1",
	"Dns" : "8.8.8.8",
	"AutoDns" : true,
	"SSID" : "Dead",
	"Password": "Beef"
	}

[POST]	curl localhost:8080/ifconfig/wlan0 -H "Content-Type: application/json" -d '{ "DHCP" : false, "Ip" : "192.168.228.77", "Netmask" : "255.255.255.0", "Gateway" : "192.0.0.1", "Dns" : "8.8.8.8", "AutoDns" : true, "SSID" : "Dead", "Password":

200 OK	{
	"DHCP" : false,
	"Ip" : "192.168.228.77",
	"Netmask" : "255.255.255.0",
	"Gateway" : "192.0.0.1",
	"Dns" : "8.8.8.8",
	"AutoDns" : true,
	"SSID" : "Dead",
	"Password": "Beef"
	}

/devinfo	Device Info		
GET	SerialNumber	string	
	DeviceModel	string	
	Year	string	

	Sensor	string	
	SoftwareVersion	string	
	MDMI	string	

[GET]	curl localhost:8080/devinfo -X GET

200 OK	{
	"SerialNumber": "00000000",
	"DeviceModel": "EasyCube-1.6",
	"Year": "2021",
	"Sensor": "D415",
	"SoftwareVersion": "3.0",
	"MDMI": "sealed"
	}

/errorlog	Error Log		
GET	[ ]	[ ]	
	Datetime	string	
	Code	string	
	Message	string	

[GET]	curl localhost:8080/errorlog -X GET
200 OK	[{ "Datetime": "2021-06-14 13:24:55", "Code": " scalc", "Message": " parameters" }, { "Datetime": "2021-06-10 10:42:38", "Code": " sens3", "Message": " API pre-co" },]

/reboot	System Reboot Command
POST	No Param

[POST]	curl localhost:8080/reboot -X POST

/shutdown	System Shutdown Command

POST	No Param

[POST]	curl localhost:8080/shutdown -X POST

/version	API Version		
GET	Version	string	API Version
	Name	string	easyapi
[GET]	curl localhost:8080/devinfo -X GET		

200 OK	{
	"Version": "v0.26",
	"Name": "easyapi"
	}		

/websconfig	API Server Configuration		
GET/POST	HttpPort	int	
	HttpsInUse	bool	
	PrettyJson	bool	
	EasyCubeWD	string	

[GET]	curl localhost:8080/websconfig -X GET

200 OK	{
	"HttpPort": 8080,
	"HttpsInUse": false,
	"PrettyJson": true,
	"Language": "tr",
	"EasyCubeWD": ""
	}

[POST]	curl http://localhost:8080/websconfig -H "Content-Type: application/json" -d '{ "HttpPort": 8085, "HttpsInUse": true, "Language": "en", }'

200 OK	{
	"HttpPort": 8085,
	"HttpsInUse": true,
	"PrettyJson": true,
	"Language": "en",
	"EasyCubeWD": ""
	}

FTP Data Sharing

FTP Server Setting:

EasyCube S dimensioner include an FTP/SFTP data sharing option to transfer measurement results to a remote FTP/SFTP drive. Depending on user selection, the measurement results are saved to the FTP/SFTP drive when it takes a certain number of measurements or once per day at a specified time.

Complete the following steps to save results to FTP Server:

1- Turn EasyCube-S on if you have not already.
2- Press the “Settings” button on the display.
3- Press the “Data Extraction” tab in the Settings menu.
4- Select the “SFTP” or “FTP” Server option
5- Check “Enable Saving to FTP Server”
6- Set the SFTP/FTP Server Settings
7- Enter the Records Number if you want to save a certain number of measurements.
8- Check the “Enable Scheduled Saving” and set the “Save Time” if you want to save once per day at a specified time.
9- Check the “Enable Saving on Program Close” if you want to save while EasyCube is shutting down.
10- Press the “Send Now” if you want to send all measurements immadiately.

If you get the “error:sending time out, pft server is not responding!” error, please check the address, port, user name and password and press the “send now” button.

Error Messages

Alibi:

number(82),"error: last saved package number changed externally (crc error), package number will reset to 1!"

number(83),"error: can not save package number!"

number(81),"error: cannot restore saved last package number, package number will reset to 1!"

number(801),"error: cannot find alibi file!"

number(802),"error: cannot write to alibi file, package number will reset to 1!"

number(84),"error: alibi file is full, maximum record number is reached, package number will reset to 1!"

number(85),"error: barcode size is too big!"

Calibration:

number(32),"error: cannot save calibration!"

number(30),"error: cannot find calibration file!"

number(31),"error: calibrations have changed externally (checksum error)"

Configuration:

number(20),"error: can not find config file!"

number(21),"error: can not save configuration!"

number(22),"error: configuration have changed externally (checksum error)!"

D400:

number(10),"error: No camera found, please connect one!"

number(11),"error: cannot find preset file!");

number(1x1),"error: camera disconnected error!"

number(1x2),"error: backend error (camera is busy)!"

number(1x3),"error: Device requires firmware update!"

number(1x4),"error: parameters passed to camera lib had invalid value!"

number(1x5),"error: API pre-condition was not met!"

number(1x6),"error: operation is not supported for this device!"

number(1x7),"error: camera general error!"

x:

0 pipe.start error

1 json file error

2 pipe.stop error

3 pipe.wait_for_frames error

number(12),"error: camera disconnected error!"

number(13),"error: camera main error!"

DeviceInfo:

number(40),"error: device information cannot be restored!"

ChangeLogger:

number(50),"error: Can not log calibrations changes!"

TEMWeightScale:

number(70),"error: weighing scale serial port initialization error, please check serial port configuration or scale connection!"

number(71),tr("error: weighing scale serial port error, please check scale connection!")

number(72),tr("error: weighing scale serial port error, please check scale connection!")

TcpServerClass:

number(60),"error: TCP/IP Server initialization error!"