# CX-GBシリーズ UVCコマンドリスト

# UVCコマンドリスト一覧

	[UVC(Set/Get/Execute)]				
No.	Unit and Terminal Control	CommandID	CommandType	Command Name	Note
2.2	Extension Unit Control1	0x5	Execute	リセット実行	
2.3	Extension Unit Control1	0x9	Execute	単写実行	
2.4	Extension Unit Control1	0xA	Execute	連写/インターバル/スフィア 撮影開始	
			Execute	連写/インターバル/スフィア 撮影終了	
2.5	Extension Unit Control1	0xB	Execute Execute	動画開始動画終了	
2.6	Extension Unit Control1	0xC	Set Get	静止画サイズ 静止画サイズ	
2.7	Extension Unit Control1	0xD	Set Get	静止画画質 静止画画質	
2.8	Extension Unit Control1	0xF	Set Get	動画サイズ 動画サイズ	
2.9	Extension Unit Control1	0x10	Set Get	動画フレームレート 動画フレームレート	
2.10	Extension Unit Control1	0x12	Set Get	静止画撮影モード 静止画撮影モード	
2.11	Extension Unit Control1	0x13	Set Get	シャッターモード シャッターモード	***************************************
2.12	Extension Unit Control1	0x14	Set Get	露出制御 露出制御	
2.13	Extension Unit Control1	0x15	Set Get	シャッター速度 シャッター速度	
2.14	Extension Unit Control1	0x16	Set Get	ISO感度 ISO感度	
2.15	Extension Unit Control1	0x17	Set Get	露出補正 露出補正	
2.16	Extension Unit Control1	0x18	Set Get	測光モード 測光モード	
2.17	Extension Unit Control1	0x19	Set Get	ホワイトバランス ホワイトバランス	
2.18	Extension Unit Control1	0x1B	Set Get	絞り 絞り	
2.19	Extension Unit Control1	0x1C	Set Get	フォーカスモード フォーカスモード	
2.20	Extension Unit Control1	0x1D	Set Get	フォーカス位置 フォーカス位置	
2.21	Extension Unit Control1	0x1E	Set Get	日付と時刻 日付と時刻	
2.22	Extension Unit Control1	0x1F	Get	シリアル番号	
2.23	Extension Unit Control2	0x1	Get	ファームウェアバージョン	
2.24	Extension Unit Control2	0x2	Execute	電源OFF	
2.25	Extension Unit Control2	0x3	Set Get	静止画フォーマット 静止画フォーマット	
2.26	Extension Unit Control2	0x4	Set Get	FIS補正 EIS補正	
2.27	Extension Unit Control2	0x6	Set Get	静止画撮影インターバル時間 静止画撮影インターバル時間	
2.28	Extension Unit Control2	0x7	Set Get	AEブラケット撮影枚数 AEブラケット撮影枚数	
2.29	Extension Unit Control2	0x8	Set Get	HDR HDR	
2.30	Extension Unit Control2	0x9	Set Get	歪み補正 歪み補正	
2.31	Extension Unit Control2	0xA	Execute	ジンバルの初期化	
2.32	Extension Unit Control2	0xB	Get Set	カメラステータス フォーカス枠の位置	
2.33	Extension Unit Control2	0xC	Get	フォーカス枠の位置	
2.34	Extension Unit Control2	0xD	Execute	OneShotAFの実行	l
2.37	Extension Unit Control2	0x10	Execute	ファームウェアバージョンア	ップ
2.38	Extension Unit Control2	0x11	Execute	AE Lockの実行	
2.39	Extension Unit Control2	0x12	Set	センサモード	
			Get Set	センサモード シームレス撮影時間	
2.40	Extension Unit Control2	0x13	Get	シームレス撮影時間	
2.41	Extension Unit Control2	0x14	Set	電子ズーム倍率	
2.42	Extension Unit Control2	0x15	Get Execute	電子ズーム倍率 SDカードフォーマット	
		0x16	Set	レンズフィルタの有無	
2.43	Extension Unit Control2		Get Set	レンズフィルタの有無 NDVIカラーマップ範囲	
2.44	Extension Unit Control2	0x17 0x18	Get Set	NDVIカラーマップ範囲 スルー出カモード	***************************************
2.45	Extension Unit Control2		Get Set	スルー出力モード IRカラーパレット	
2.46	Extension Unit Control2  Extension Unit Control2	0x19	Get Set	IRカラーパレット 光学ズーム倍率	
	Extension Unit Control2  Extension Unit Control2	0x1A 0x1B	Get Set	光学ズーム倍率 カメラ取付位置	
2.48	Extension Unit Control2  Extension Unit Control2	0x1B 0x1C	Get Set	カメラ取付位置 ラジオメトリ機能	近日実装予定
2.49		0x1C 0x1D	Get Execute	ラジオメトリ機能 IRセンサ FFC	近日実装予定 近日実装予定
2.50		OVID	Set	UAVCAN通信有効設定 UAVCAN通信有効設定	
2.51	Extension Unit Control2  Extension Unit Control2	0x1E	Get		
2.51		0x1E 0x1F	Get Set Get	輪郭強調	
	Extension Unit Control2				导
2.52 2.53 2.54	Extension Unit Control2  Extension Unit Control2  Extension Unit Control3  Extension Unit Control3	0x1F 0x1 0x2	Set Get Set Set	輪郭強調 輪郭強調 ジンバルカメラの姿勢角度取る ドローンの姿勢情報通知	押
2.52 2.53 2.54 2.55	Extension Unit Control2  Extension Unit Control2  Extension Unit Control3  Extension Unit Control3  Extension Unit Control3	0x1F 0x1 0x2 0x3	Set Get Set Set Set	輪郭強調 輪郭強調 ジンバルカメラの姿勢角度取る ドローンの姿勢情報通知 パンチルト指示通知	<b>但</b> 存
2.52 2.53 2.54 2.55 2.56	Extension Unit Control2  Extension Unit Control2  Extension Unit Control3  Extension Unit Control3  Extension Unit Control3  Extension Unit Control3  Extension Unit Control3	0x1F 0x1 0x2 0x3 0x4	Set Get Set Set Set Set Set	輪郭強調 輪郭強調 ジンパルカメラの姿勢角度取 ドローンの姿勢情報通知 パンチルト指示通知 GPS情報通知	QIF
2.52 2.53 2.54 2.55	Extension Unit Control2  Extension Unit Control2  Extension Unit Control3  Extension Unit Control3  Extension Unit Control3	0x1F 0x1 0x2 0x3	Set Get Set Set Set	輪郭強調 輪郭強調 ジンバルカメラの姿勢角度取る ドローンの姿勢情報通知 パンチルト指示通知	यहर -

[Command	Available Lis	t] CX-GB300	CX-GB400
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# Extension Unit Control仕様

**1 Extension Unit Descriptor** 本仕様では、Extension Unit は3つ存在する

#### 1.1 Extension Unit 1 Descriptor

フィールド	データ	備考			
bUnitID	0x6				
	{5ACE5FA0-				
guidExtensionCode	415E-4CDE-	The remarks for each camera are as follows.			
guidExterisionCode	A9AC-	The remarks for each camera are as follows.			
	272CC6377913}				
Camera	parameters	備考			
	{5ACE5FA0-				
CV CD400	415E-4CDE-	( 0 FACEFFA  0 44FF  0 4CDF  ( 0 -0 0 0 27  0			
CX-GB100	A9AC-	{ 0x5ACE5FA0, 0x415E, 0x4CDE, { 0xa9, 0xac, 0x27, 0x2c, 0xc6, 0x37, 0x79, 0x13 } }			
	272CC6377913}				
	{5ACE5FE0-				
CX-GB200	06BD-4CB5-	{ 0x5ACE5FE0, 0x06BD, 0x4CB5, { 0xB7, 0xC5, 0x28, 0x28, 0xC9, 0x10, 0x79, 0x13 } }			
CX-GB200	B7C5-	{ UX5ACE5FEU, UXU0BD, UX4CB5, { UXB7, UXC5, UX28, UX28, UXC9, UX10, UX79, UX13 } }			
	2828C9107913}				
	{5ACE6460-				
CV CB200	E8C1-4B29-	[ 0.FACTC4C0 0.FDC1 0.4B20 ( 0.FA 0.21 0.70 0.FC 0.FC 0.FC 0.FC 0.FC 0.FC 0.FC 0.F			
CX-GB300	B431-	{ 0x5ACE6460, 0xE8C1, 0x4B29, { 0xB4, 0x31, 0x39, 0xE0, 0xFC, 0x52, 0x79, 0x13 } }			
	39E0FC527913}				
	{5ACE6620-				
CV CD 400	4F8E-4B3E-	( 0FACECCO			
CX-GB400	95AC-	{ 0x5ACE6620, 0x4F8E, 0x4B3E, { 0x95, 0xAC, 0x40, 0xC4, 0x10, 0x41, 0x79, 0x13 } }			
	40C410417913}				

#### 1.2 Extension Unit 2 Descriptor

フィールド	データ	備考			
bUnitID	0x7				
	{5ACE5FA0-				
guidExtensionCode	415E-4CDE-	The remarks for each camera are as follows.			
guidexterisioncode	A9AC-	The remarks for each earners are as follows.			
	272CC6377914}				
Camera	parameters	備考			
	{5ACE5FA0-				
CV CD400	415E-4CDE-	( 0FACEFFAQ 0.444FF 0.44CDF ( 020 02- 027 02- 0C 027 070 014 ) )			
CX-GB100	A9AC-	{ 0x5ACE5FA0, 0x415E, 0x4CDE, { 0xa9, 0xac, 0x27, 0x2c, 0xc6, 0x37, 0x79, 0x14 } }			
	272CC6377914}				
	{5ACE5FE0-				
CX-GB200	06BD-4CB5-	( 0.FACFFFF 0.90CPD 0.4CPF ( 0.P7 0.CF 0.20 0.20 0.20 0.40 0.70 0.44 ) )			
CX-GB200	B7C5-	{ 0x5ACE5FE0, 0x06BD, 0x4CB5, { 0xB7, 0xC5, 0x28, 0x28, 0xC9, 0x10, 0x79, 0x14 } }			
	2828C9107914}				
	5ACE6460-				
CX-GB300	E8C1-4B29-	{ 0x5ACE6460, 0xE8C1, 0x4B29, { 0xB4, 0x31, 0x39, 0xE0, 0xFC, 0x52, 0x79, 0x14 } }			
CX-GB300	B431-	( 0X3ACE0400, 0XE0C1, 0X4D25, ( 0XD4, 0X31, 0X35, 0XE0, 0X1 C, 0X32, 0X75, 0X14 ) )			
	39E0FC527914				
	{5ACE6620-				
CX-GB400	4F8E-4B3E-	{ 0x5ACE6620, 0x4F8E, 0x4B3E, { 0x95, 0xAC, 0x40, 0xC4, 0x10, 0x41, 0x79, 0x14 } }			
CA-GD400	95AC-	( 0x3nc20020, 0x11 02, 0x1332, \ 0x33, 0xnc, 0x40, 0x04, 0x10, 0x41, 0x/3, 0x14 } }			
	40C410417914}				

## 1.3 Extension Unit 3 Descriptor

フィールド	データ	備考			
bUnitID	0x8				
	{5ACE5FA0-				
quidExtensionCode	415E-4CDE-	The remarks for each camera are as follows.			
guidexterisioncode	A9AC-	The remarks for each camera are as follows.			
	272CC6377915}				
Camera	parameters	備考			
	{5ACE5FA0-				
CX-GB100	415E-4CDE-	( 0vEACEFEAD 0v41FE 0v4CDE ( 0v20 0v20 0v27 0v20 0v27 0v27 0v27 0v27			
CX-GB100	A9AC-	{ 0x5ACE5FA0, 0x415E, 0x4CDE, { 0xa9, 0xac, 0x27, 0x2c, 0xc6, 0x37, 0x79, 0x15 } }			
	272CC6377915}				
	{5ACE5FE0-				
CX-GB200	06BD-4CB5-	{ 0x5ACE5FE0, 0x06BD, 0x4CB5, { 0xB7, 0xC5, 0x28, 0x28, 0xC9, 0x10, 0x79, 0x15 } }			
CX-GD200	B7C5-	{ 0x3ACESI E0, 0x00000, 0x4C03, { 0x07, 0xC3, 0x20, 0x20, 0xC3, 0x10, 0x73, 0x13 } }			
	2828C9107915}				
	{5ACE6460-				
CX-GB300	E8C1-4B29-	{ 0x5ACE6460, 0xE8C1, 0x4B29, { 0xB4, 0x31, 0x39, 0xE0, 0xFC, 0x52, 0x79, 0x15 } }			
CX-GD300	B431-	( 0x3ACLO400, 0xL0C1, 0x4B23, { 0xB4, 0x31, 0x33, 0xL0, 0x1 C, 0x32, 0x73, 0x13 } }			
	39E0FC527915}				
	{5ACE6620-				
CX-GB400	4F8E-4B3E-	{ 0x5ACE6620, 0x4F8E, 0x4B3E, { 0x95, 0xAC, 0x40, 0xC4, 0x10, 0x41, 0x79, 0x15 } }			
CA GD400	95AC-	{ 0.000000000, 0.01 00, 0.01000, \ 0.0000, 0.000, 0.000, 0.000, 0.010, 0.011, 0.079, 0.010 } }			
	40C410417915}				

#### 2 Extension Unit Requests

ExtensionUnit(ExtensionUnit1,2,3の3つが存在する ExtensionUnit(ExtensionUnit1,2,3の3つが存在する Extension機能のTableでは、Control Selector欄にExtensionUnitの番号と機能番号を"ExtensionUnit<Unit番号>#<機能番号>"と記載する

2.2 Reset	(リセット実行)
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2.2	2 Reset			(90)			
	Control Selector			Extension Unit Control1 #0x5			
	Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
	wLlength		1				
	OffSet	Field	Size	Value	Description		
	0 bReset 1		1	1 Index number	The setting for the attribute of the addressed reset.		
			1		0:設定リセット 1:工場出荷リセット		

2.3 Take Picture (単写実行)

	Control Selector			Extension Unit Control1 #0x9			
Mandatory Requests				SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
	wLlength			1			
OffSet		Field	Size	Value	Description		
	0	bTakePicture	1	Index number	The setting for the attribute of the addressed take picture.  0 : Execute		

(連写、インターバル撮影、スフィア撮影開始/停止通知) 2.4 Burst Shot

	Control Selector			Extension Unit Control1 #0xA			
	Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
	wLlength			1			
OffSet		Field	Size	Value	Description		
	Ō	bBurstShot	1	1 Boolean	The setting for the attribute of the addressed burst shot.		
	U	DDUISCOIDE	DBurstSnot 1		0 : Stop 1 : Start		

2.5 Recording (動画開始/終了)

 5 Recording			(3/1000000000000000000000000000000000000			
Control Selector			Extension Unit Control1 #0xB			
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
wLlength			1			
OffSet	Field	Size	Value	Description		
0	bRecording 1	1	1 Boolean	The setting for the attribute of the addressed recording start.		
Ü	Divector unity 1		Doolean	0 : Stop 1 : Start		

2.6 Photo Resolution Control (静止画サイズ)

2.0 Filoto Resolution Control			(静止回り1人)			
Control Selector	Extension Unit Control1 #0xC					
Mandatory Reques		SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
wLlength		1				
OffSet Field	d S	Size	Value Description			
0	bPhotoResolution	1	Index number	The setting for the attribute of the addressed photo resolution control.  The parameter for each camera are as follows.		
Camera para	ameters					
CX-GB100 0 : 2	20M (default) 1:16N	M(動画中静止画のみ) 2:15M 3:10M 4:4M(動画中静止画のみ) 1 8:IR Size(640x512)				
CX-GB200 6 : :	12M (default) 7:3M					
CX-GB300 5 : !	5M					
CX-GB400 4 : 4	4M 9:8M 10:9M (	(default)				

2.7 Photo Quality Control (静止画画質)

/	Frioto Quality Control		(月尹111四)	(財工四回長)				
	Control Selector			Extension Unit Control 1 #0xD				
	Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
	wLlength			1				
	OffSet	Field	Size	Value	Description			
	0	bPhotoQuality	1	Index number	The setting for the attribute of the addressed photo quality control.  O : SuperFine (default) 1 : Fine 2 : Normal			

2.8 Video Resolution Control (動画サイズ)

Control Selector			Extension Unit Control1 #0xF				
Mandatory Re	quests		SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
wLlengti	wLlength			1			
OffSet	Field	Size	Value	Description			
0	bVideoResolution	1	Index number	The setting for the attribute of the addressed video resolution.			
O O	DVIdeoResolution			The parameter for each camera are as follows.			
Camera	Parameter						
CX-GB100	0:4K 1:2.7K 2:1	FHD (default) 3: HD 4: nHD					
CX-GB200	2 : FHD (default) 3 : H	D 5:1	D 5: IR Size(640x512)				
CX-GB300	Not Supported						
CX-GB400	0:4K 1:2.7K 2:I	HD (defa	HD (default) 3: HD				

#### 2.9 Video Frame Rate Control

#### (動画フレームレート)

Control Selector  Mandatory Requests			Extension Unit Control1 #0x10			
			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
wLleng	wLlength			1		
OffSet	OffSet Field		Value	Description		
0 bVideoFrameRate		1	Index number	The setting for the attribute of the addressed video frame rate.  The parameter for each camera are as follows.		
Camera	Parameter					
CX-GB100	0:30p (default) 1:6	0p 2:	120p 3:240p			
CX-GB200	0:30p (default) 1:6	0р				
CX-GB300	Not Supported					
CX-GB400	0:30p (default) 1:6	0p				

2.10 Shooting Mode Control

(静止画撮影モード)

10 Shooting Flode Control			134K/7/ C   /				
Control Selec	ctor		Extension Unit Control1 #0x12				
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
wLlength	wLlength		1				
OffSet	Field	Size	Value	Description			
0	bShootingMode	1	Index number	The setting for the attribute of the addressed shooting mode control.  The parameter for each camera are as follows.			
Camera	Parameter						
CX-GB100	0 : Single (default) 1 :	Burst	2 : AE Bracket	3 : Interval 4 : Sphere			
CX-GB200	0 : Single (default) 1 :	Burst	2 : AE Bracket	3 : Interval			
CX-GB300	0 : Single (default) 3 :	Interval					
CX-GB400	0 : Single (default) 1 :	Burst	2 : AE Bracket	3 : Interval			

2.11 Shutter Type Control

(シャッターモード)

Shaker Type Control		() ()	(2)())					
Control Selector  Mandatory Requests			Extension Unit Control1 #0x13					
			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN					
wLler	wLlength		1					
OffSet Field		Size	Value	Description				
0	bShutterType	1	Index number	The setting for the attribute of the addressed shutter type control.  The parameter for each camera are as follows.				
Camera	Parameter	1		,				
CX-GB100	0 : Mechanical (default)	1 : Electric						
CX-GB200 1 : Electric								
CX-GB300 0 : Mechanical (default)			1 : Electric					
CX-GB400	1 : Electric							

2.12 Exposure Mode Control

(露光制御)

IL Exposure Flode Control			(10)010)167			
Control Sele	Control Selector			Extension Unit Control1 #0x14		
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
wLlength	wLlength			1		
OffSet	Field	Size	Value	Description		
0	bExposureMode	1 Index number	The setting for the attribute of the addressed exposure mode control.			
ŭ	bExposurer lode	1 Index number		The parameter for each camera are as follows.		
Camera	Parameter					
CX-GB100	0 : Manual 1 : Shutter	2 : Ape	erture 3 : Prog	ram (default)		
CX-GB200	0 : Manual 3 : Program	(default)				
CX-GB300	0 : Manual 1 : Shutter	2 : Ape	erture 3 : Prog	ram (default)		
CX-GB400	0 : Manual 3 : Program	(default)				

2.13 Exposure Time Control

(シャッター速度)

2 Exposure Time Control		(- ( -	(21)2 200				
Control Selector			Extension Unit Control1 #0x15				
Mandatory Re	Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
wLlengt	h			1			
OffSet	Field	Size	Value	Description			
0	bExposureTime	1	Index number	The setting for the attribute of the addressed exposure time control.  0:1/8000 1:1/6400 2:1/5000 3:1/4000 4:1/3200 5:1/2500 6:1/2000 7:1/1600 8:1/1250 9:1/1000 10:1/800 11:1/640 12:1/500 13:1/40014:1/320 15:1/250 16:1/200 17:1/160 18:1/125 19:1/100 (default) 20:1/80 21:1/60 22:1/50 23:1/40 24:1/30 25:1/25 26:1/20 27:1/15 28:1/13 29:1/10 30:1/8 31:1/6 32:1/5 33:1/4 34:1/3 35:1/2.5 36:1/2 37:1/1.6 38:1/1.3 39:1 40:1.3 41:1.6 42:2 43:2.5 44:3.2 45:4 46:5 47:6 48:8			

2.14 IsoSensitivity Control

(ISO感度)

+ 1303eHsidvicy Condition			(130)(8/9)					
(	Control Selector			Extension Unit Control1 #0x16				
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN					
	wLlength			1				
OffSet	Field	Size	Value	Description				
0	bIsoSensitivity	1	Index number	The setting for the attribute of the addressed iso sensitivity control.  0: Auto 1: 125 (default) 2: 160 3: 200 4: 250 5: 320 6: 400 7: 500 8: 640 9: 800 10: 1000 11: 1250 12: 1600 13: 2000 14: 2500 15: 3200 16: 4000 17: 5000 18: 6400				

2.15 Exposure Compensation Control

(露出補正)

	Control Selector			Extension Unit Control1 #0x17				
Mandatory Requests				SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
	wLlength			1				
OffSet		Field	Size	Value	Description			
	0	bExposureCompensation	1	Index number	The setting for the attribute of the addressed exposure compensation control. $0: -2.0  1: -1.7  2: -1.3  3: -1.0  4: -0.7  5: -0.3  6: \pm 0.0 \text{ (default)} \\ 7: +0.3  8: +0.7  9: +1.0  10: +1.3  11: +1.7  12: +2.0$			

2.16 Photometry Control

(測光モード)

Control Selector			Extension Unit Control1 #0x18			
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
wLlength			1			
OffSet	Field	Size	Value	Description		
0 bPhotometry		Index number	The setting for the attribute of the addressed photometry control.			
O	Drifotoffieti y	1	Index number	0 : Multi (default) 1 : Center		

2.17 White Balance Mode Control

(ホワイトバランス)

				the fire early					
	Control Selector			Extension Unit Control1 #0x19					
Mandatory Requests				SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN					
	wLlength			1					
OffSet		Field	Size	Value	Description				
					The setting for the attribute of the addressed white balance control.				
0		bWhiteBalanceMode	1	Index number	0 : Auto (default) 1 : Daylight 2 : Cloudy				
					3 : Shady 4 : Incandescent 5 : Fluorescent				

2.18 Aperture Control

(絞り)

ſ	Control Selector  Mandatory Requests			Extension Unit Control1 #0x1B			
				SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
Ī	wLlength			1			
	OffSet	Field	Size	Value	Description		
	0	bAperture	1	Index number	The setting for the attribute of the addressed aperture control.  0: F2.8 (default)    1: F3.2    2: F3.5    3: F4.0    4: F4.5    5: F5.0    6: F5.6    7: F6.3    8: F7.1    9: F8.0    10: F9.0    11: F10.0    12: F11.0		

2.19 Focus Mode Control

(フォーカスモード)

3 1 0003 1 1000 00110 01			(2)/ (3)/(2 1)					
Control Selector  Mandatory Requests			Extension Unit Control1 #0x1C  SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN					
								1
OffSet	Field	Size	Value	Description				
0	bFocusMode	- 1	Index number	The setting for the attribute of the addressed focus mode control.				
U	brocusinode	1	Index number	The parameter for each camera are as follows.				
Camera	Parameter							
CX-GB100	0 : MF (default) 1 : S	-AF 2:	C-AF					
CX-GB200	0:MF (default) ※単焦原	点のためフ	のためフォーカス変更は不可					
CX-GB300	0 : MF (default) 1 : S	-AF	<b>=</b>					
CX-GB400	0 : MF (default) 1 : S	-AF 2:	C-AF					

2.20 Focus Position Control

(フォーカス位置)

Focus Position Control		(フォー	(フォーカス位置)				
Con	Control Selector		Extension Unit Control1 #0x1D				
Manda	Mandatory Requests		SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
\	wLlength			4			
OffSet	Field	Size	Value	Description			
0	bFocusPosition	4	Number	The setting for the attribute of the addressed focus position control.			
U	Drocusposition	4	Number	The parameter for each camera are as follows.			
Camera	Parameter						
CX-GB100	100 ~ 100000 (default)						
	100 : 10cm 300 : 30	cm 100	n 1000 : 1m 40000 : 40m 100000 : ∞				
CX-GB200	Not Supported						
CX-GB300	100 ~ 100000 (default)						
	100 : 10cm 300 : 30	cm 100	0 : 1m 40000	: 40m 100000 : ∞			
CX-GB400	300 ~ 100000 (default)						
300 : 30cm 1000 : 1m .			40000 : 40m 100000 : ∞				

2.21 Date Time Control

(日付と時刻)

21	1 Date Time Control			(ロガンは対)			
	Control Selector  Mandatory Requests  wLlength			Extension Unit Control1 #0x1E			
				SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN  14			
	OffSet	Field	Size	Value	Description		
	0	bDateTime	14	String	The setting for the attribute of the addressed date and time control. $2021/01/01 \cdot 00:00:00 \cdot (default) \sim 2039/12/31 \cdot 23:59:59$		

2.22 Serial Number

(シリアル番号)

			(e e / / m s/					
Control Sele	Control Selector			Extension Unit Control1 #0x1F				
Mandatory Requests			GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN					
wLlengt	wLlength			12				
OffSet	Field	Size	Value	Description				
0	bSerialNumber	12	Constant	The setting for the attribute of the addressed serial number.				

2.23 Firmware version

(ファームウェアバージョン)

				ver memory rates			
	Control Selector  Mandatory Requests			Extension Unit Control2 #0x1			
				GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
Ì	wLlength	1		11			
Ì	OffSet	Field	Size	Value	Description		
	0	bFirmwareVersion	11	Constant	The setting for the attribute of the addressed firmeware version.		

2.24 Power Off

(電源OFF)

 			(-Emyority				
Control Selector			Extension Unit Control2 #0x2				
Mandatory Red	quests		SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
wLlength			1				
OffSet	Field	Size	Value	Description			
0	bPowerOff	1	Index number	The setting for the attribute of the addressed power off.  0 : Execute			

2.25 Still Image Format Control

静止画フォーマット)

5 Still Image Format Control			(静止曲フオーマット)					
Control Sele	ector		Extension Unit Control2 #0x3					
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN					
wLlengt	wLlength			1				
OffSet	Field	Size	Value	Description				
0	bStillImageFormat	1	Index number	The setting for the attribute of the addressed still image format control.				
U	DStillThageronnat	1		The parameter for each camera are as follows.				
Camera	Parameter							
CX-GB100	0 : JPEG(default) 1 : D	DNG 2	: DNG+JPEG					
CX-GB200	(-GB200 0 : JPEG(default) 1 : D		: DNG+JPEG					
CX-GB300 3 : TIFF(default)								
CX-GB400	0 : JPEG(default) 1 : D	DNG 2	: DNG+JPEG					

2.26 EIS Mode Control

(EIS補正)

Control Selector			Extension Unit Control2 #0x4			
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
	wLlength		1			
OffSet	Field	Size	Value	Description		
0	bEisMode	1	Boolean	The setting for the attribute of the addressed EIS mode control.  0 : OFF 1 : ON (default)		

2.27 Interval timer Control

(静止画インターバル時間)

Tricer var timer Control		(月尹111年	ヨイン・ター/ ひか時間						
Control Selector  Mandatory Requests			Extension Unit Control2 #0x6						
			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN						
,	wLlength			4					
OffSet	Field	Size	Value	Description					
	bIntervalTimer	4	Number	The setting for the attribute of the addressed interval timer control.					
0	billervarriller	4	Number	The parameter for each camera are as follows.					
Camera	Parameter								
CX-GB100	2 / 3 / 5 (default) / 7 /	10 / 15 /	20 / 30 / 60 [sec	]					
CX-GB200	2 / 3 / 5 (default) / 7 /	10 / 15 /	20 / 30 / 60 [sec	]					
CX-GB300	2 / 3 / 5 (default) / 7 /	10 / 15 /	20 / 30 / 60 [sec						
CX-GB400									

2.28 Ae Bracket Setting Control

(AEブラケット撮影枚数)

			V == 2 2 1 2000 1000			
Control Selector			Extension Unit Control2 #0x7			
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
wLlength			1			
	Field	Size	Value	Description		
)	bAeBracketSetting	1	Number	The setting for the attribute of the addressed ae bracket setting control.  3 (default) / 5		
	Control Sele  Mandatory Rec  wLlength	Control Selector  Mandatory Requests  wLlength  Field	Control Selector  Mandatory Requests  WLlength  Field Size	Control Selector  Mandatory Requests SET_CUR, C  WLlength  Field Size Value		

2.29 HDR Setting Control

(HDR)

	Control Selector			Extension Unit Control2 #0x8			
Mandatory Requests				SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
	wLlength			1			
OffSet		Field	Size	Value	Description		
	0	bHdrSetting	1	Boolean	The setting for the attribute of the addressed HDR setting control.		
	U	bharsetting	1		0 : OFF (default) 1 : ON		

#### 2.30 Distortion Correction Control

(歪み補正)

		(22-7 111)	(ac- / 110ac)				
Control Selector				Extension Unit Control2 #0x9			
Mandatory Requests				SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
	wLlength			1			
OffSet		Field	Size	Value	Description		
0		bDistortionCorrection	1	Boolean	The setting for the attribute of the addressed distortion correction control.  0: OFF 1: ON (default)		

2.31 Gimbal Restart

(ジンバル初期化)

			(			
Control Selector  Mandatory Requests			Extension Unit Control2 #0xA			
			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
wLlength			1			
OffSet	Field	Size	Value	Description		
0	bGimbalCalibration	1	Index number	The setting for the attribute of the addressed gimbal calibration.  0 : Execute		
	Mandatory Rec wLlength	Mandatory Requests  WLlength  OffSet Field	Control Selector  Mandatory Requests  WLiength  OffSet Field Size	Control Selector  Mandatory Requests  WLlength  OffSet  Field  Size  Value		

2.32 Get Status

(カメラステータス)

32 Get Status		(カメラステータス)					
Control Selector			Extension Unit Control2 #0xB				
Mandatory Requests			GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
wLlength	h			48			
OffSet	Field	Size	Value	Description			
0	bErrorStatus	4	Bit Pattern	The setting for the attribute of the addressed error status.  静止画撮影中: 0x00000004 動画撮影中: 0x00000008 撮影ド可警告状態: 0x000000020 時刻未設定エラー状態: 0x00010000 メディアエラー状態: 0x00020000 レンズエラー状態: 0x00040000 ジンバルエラー状態: (初期動作エラー)0x00100000, (モーター動作エラー)0x00200000, (ジンバル制御エラー)0x00400000, 温度上昇警告: 0x01000000			
4	bVideoRemainTime	4	Number	The setting for the attribute of the addressed video remain time. ※動画撮影中は、連続撮影時間からの残時間を表示			
8	bPhotoRemainCount	4	Number	The setting for the attribute of the addressed photo remain count. ※動画撮影中は、撮影上限枚数からの残枚数を表示			
12	bCardFullSize	4	Number	The setting for the attribute of the addressed Card Full Size in MB units.			
16	bCardFreeMem	4	Number	The setting for the attribute of the addressed Card Free Memory in MB units.			
20	bAdValueBody	2	Number	AD value Body (0~255).			
22	bAdValueCmos	2	Number	AD value CMOS (0~255).			
24	bAdValueGimbalPitch	2	Number	AD value Gimbal Pitch (0~255).			
26	bAdValueGimbalRoll	2	Number	AD value Gimbal Roll (0 $\sim$ 255).			
28	bAdValueGimbalTilt	2	Number	AD value Gimbal Tilt (0 $\sim$ 255).			
30	Reserve	2	Number	Reserve Area			
32	bGetDateTime	7	Number	The setting for the attribute of the addressed get date time.			
39	Reserve	1	Number	Reserve Area			
40	bGetExposureTime	4	Number	The current exposure time value of camera. exposure time in 1 [ $\mu$ s] units.			
44	bGetAperture	2	Number	The current aperture value of camera.  Command parameters are multiplied by 100.			
46	bGetIsoSensitivity	2	Number	The current iso sensitivity value of camera.			

# 2.33 Focus Frame Position

(フォーカス枠の位置)

33 FO	3 Focus Frame Position		(フォー	(フォーガス枠の位置)			
	Control Sele	ctor		Extension Unit Control2 #0xC			
	Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
	wLlength			1			
Of	fSet	Field	Size	Value	Description		
					The setting for the attribute of the addressed focus frame position.		
	0	bFocusFramePosition	1	Number	0 / 1 / 2 / 3 / 4 / 5 / 6 / 7 (default) / 8 / 9 / 10 / 11 / 12 / 13 / 14 (/ FF (default))		
					"FF" is the setting value that cannot set.		

# 2.34 One Shot AF

(One Shot AF実行)

٠.	0.10 0.100 / 11		(616 516 71 × (1)					
	Control Selector			Extension Unit Control2 #0xD				
	Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
	wLlength			2				
	OffSet	Field	Size	Value	Description			
	0	bOneShotAf	1	Index number	The setting for the attribute of the addressed one shot AF.			
	0	DOTIESTICIAL	1	Index number	0:Execute 1:Execute+Lock 2:LockCancel			
	1	bOneShotAf	1	Number	The setting for the attribute of the addressed focus frame position.			
	1	boneshotal	1	Number	0/1/2/3/4/5/6/7/8/9/10/11/12/13/14			

2 27	Firmware	version	un

#### (ファームウェアバージョンアップ)

'	rinnware version up							
	Control Selector			Extension Unit Control2 #0x10				
	Mandatory Red	quests		GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
Ì	wLlength	1			16 + 60*1024			
Ì	OffSet	Field	Size	Value	Description			
	0	bTransferStatus	4	Number	0:転送開始 1:転送中 2:転送終了			
	4	bFirmwareSize	4	Number	ファームウェア総サイズ			
	8	bFirmwareSendDataOffset	4	Number	転送データオフセット			
	12	bFirmwareSendDataSize	4	Number	転送データサイズ			
	16	bFirmwareSendData	60*1024	Constant	転送データ			

2.38 AE Lock

(AED)	ック)
-------	-----

 			V == 2 7 7			
Control Selector			Extension Unit Control2 #0x11			
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
wLlength			1			
OffSet	Field	Size	Value	Description		
0	bAeLock	1	Index number	The setting for the attribute of the addressed ae lock.  0:解除 1:実行		

2.39 Sensor Mode

(ヤン)	サモー	ド)

	Control Selector			Extension Unit Control2 #0x12			
	Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
	wLlength			1			
OffSet	i	Field	Size	Value	Description		
	0	bSensorMode	1	Index number	The setting for the attribute of the addressed sensor mode.  0: 可視 1: IR 2: PIP 3: NDVI		

2.40 Seamless Rec Time

#### (シームレス撮影時間)

	ocarriicoo rece riirie		(	> (140,00 = 0.100)			
	Control Selector  Mandatory Requests			Extension Unit Control2 #0x13			
				SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
İ	wLlength			1			
	OffSet	Field	Size	Value	Description		
	0	bSeamlessRecTime	1	Index number	The setting for the attribute of the addressed seamless rec time.  0:1min 1:3min 2:5min 3:10min 4:指定なし		

2.41 Digital Zoom Magnification

# (電子ズーム倍率)

1 Digital 20011 Hagriincation			四十)				
Control Selector			Extension Unit Control2 #0x14				
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
wLlength	1		4				
OffSet	Field	Size	Value	Description			
0	bDigitalZoomMagnification	4	Number	The setting for the attribute of the addressed digital zoom magnification.			
Ü	DDIGITALZOOMMAGNINCATION	4	Number	The parameter for each camera are as follows.			
Camera	Parameter						
CX-GB100	100(default) / 200 / 300	/ 400 / 5	00 / 600 / 700 /	800 / 900 / 1000			
CX-GB200	100(default) / 200 / 300 /	/ 400 / 50	00 / 600 / 700 /	800 / 900 / 1000 ※可視センサ以外は100(固定)			
CX-GB300 Not Supported							
CX-GB400	100(default) / 200 / 300	/ 400 / 5	00 / 600 / 700 /	800 / 900 / 1000			

2.42 SD Card Format

### (SDカードフォーマット)

Control Selector			Extension Unit Control2 #0x15					
	Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
	wLlength			1				
OffSet		Field	Size	Value	Description			
	0	bSdCardFormat	1	Index Number	The setting for the attribute of the addressed sd card format.  0 : Execute			

2.43 Lens Filter

## (レンズフィルタ有無)

3 Lens Filter		(レンス	(レンスフィルタ有無)					
	Control Selector			Extension Unit Control2 #0x16  SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
Mandatory Requests								
	wLlength			1				
OffSet		Field	Size	Value	Description			
	0	bLensFilter	1	Index Number	The setting for the attribute of the addressed Lens Filter.			
			1 Index Number		0 : No Filter 1 : Blue Cut Filter			

2.44 NDVI Color Map Range

(NDVIカラーマップ範囲)

Control Selector			Extension Unit Control2 #0x17				
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
wLlength			2				
OffSet	Field	Size	Value	Description			
0	bRange	- 1	1 Index Number	The setting for the attribute of the addressed Color Range(Minus Side)			
0	bkange	1		0:x1.0(default) 1:x1.3 2:x2.0 3:x4.0			
1	bRange	1	Index Number	The setting for the attribute of the addressed Color Range(Plus Side)			
1				0:x1.0(default) 1:x1.3 2:x2.0 3:x4.0			

#### (スルー出カモード)

- ···· g·· p · · ·									
	Control Selector  Mandatory Requests  wLlength			Extension Unit Control2 #0x18					
				SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES, GET_LEN					
ı				1					
(	OffSet	Field	Size	Value	Description				
	0	bMode	1	Index Number	The setting for the attribute of the addressed Through Output Mode.  The parameter for each camera are as follows.				

Camera	Parameter					
CX-GB200	0 : Normal(default)	1 : IR	2 : Picture in Picture	3 : Side by Side	4 : Superimpose	5 : Mix
CX-GB300	6: NDVI(default)	7 : G - NDVI	8 : Mono Tone R 9	: Mono Tone G	10 : Mono Tone B	

2.46 IR Through Color Palette (IRカラーパレット)

10	o in minoagh color raictic			(11035 7 (1251)					
	Control Selector  Mandatory Requests  wLlength			Extension Unit Control2 #0x19					
				SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES, GET_LEN					
				1					
	OffSet	Field	Size	Value	Description				
					The setting for the attribute of the addressed Color Mode.				
	0	bMode	1	Index Number	0 : White hot 1 : Black hot 2 : Rainbow 3 : RainHC 4 : Ironbow				
					5: Lava 6: Arctic 7: Glowbow 8: Graded Fire 9: Hottesl				

2.47 Optical Zoom Magnification (光学ズーム倍率)

Cor	Control Selector			Extension Unit Control2 #0x1A			
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES, GET_LEN				
	wLlength		4				
OffSet	Field	Size	Value	Description			
0	bMagnification		Index Number	The setting for the attribute of the addressed zoom magnigication.			
U	bMagnification	4		100 ~ 250 (Can be set in 10 increments.)			

2.48 Camera Position (カメラの取付位置)

	Camera Control Selector			Extension Unit Control2 #0x1B			
	Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES, GET_LEN			
	wLlength			1			
OffSet		Field	Size	Value	Description		
	0	bPosition	1	Index Number	The setting for the attribute of the addressed Camera Attachment Position.  0: Lower Side 1: Upper Side 2: Upper Side(Yaw Fix) 3: Auto Judge(default)		

2.49 IR Sensor Radiometry Setting (ラジオメトリ機能)

72	18 Selisor Radioffied y Setting			(J2/171-91%HE)			
	Camera Control Selector  Mandatory Requests			Extension Unit Control2 #0x1C			
				SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES, GET_LEN			
	wLlength				1		
	OffSet	Field	Size	Value	Description		
	0	bMode	1	Index Number	The setting for the attribute of the addressed IR Sensor Radiometry Setting.		

2.50 IR Sensor FFC (IRセンサFFC)

50	IN Selisor Fre			(INCO STIC)			
	Camera Control Selector  Mandatory Requests			Extension Unit Control2 #0x1D			
				SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES, GET_LEN			
	wLlength			1			
	OffSet	Field	Size	Value	Description		
	0	bFFC	1	Index Number	The setting for the attribute of the addressed IR Sensor FFC Execution.		
	9				1 : Execute		

2.51 UAVCAN Enable Setting (UAVCAN通信 有効設定) ※2.53~2.56を操作される場合は、本2.51で「0:Off」に設定をしてください。

Control Selector			Extension Unit Control2 #0x1e				
	Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
	wLlength			1			
OffSet	OffSet Field		Size	Value	Description		
	0	bEnable	1	1 Boolean	The setting for the attribute of the addressed enabling UAVCAN communication.		
	0	DETIABLE	1		0 : OFF 1 : ON(default)		

2.52 Sharpness (輪郭強調)

Sharphess		(早用子りつ生	2回)			
Control Selector			Extension Unit Control2 #0x1f			
Mandator	Requests		SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN			
wLlength			1			
OffSet	Field	Size	Value	Description		
0	bSharpness	1	Boolean	The setting for the attribute of the addressed Sharpness.		
0	D3Hai priess	1	Doolean	The parameter for each camera are as follows.		

Camera	Parameter		
CX-GB100(C01VA)	0 : OFF(default)	1: HIGH1	2: HIGH2
CX-GB200(C01VB)	0 : OFF(default)	1: HIGH1	2 : HIGH2
CX-GB300(C01VC)	Not Supported		
CX-GB400(C01VE)	0 : OFF(default)	1 : HIGH1	2: HIGH2

#### 2.53 Gimbal Attitude Status

#### (ジンバルカメラの姿勢角度取得) ※本機能を操作される場合は、本2.51の設定を「0:Off」に設定が必要です。

			(	(FF FF FF EXAMPLE FF E				
	Control Sele	ector		Extension Unit Control3 #0x1				
	Mandatory Requests			GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
Ī	wLlength	า		12				
(	OffSet	Field	Size	Value	Description			
	0	gimbal_roll	2	Number	# gimbal roll, -180*100 ~ +180*100			
	2	gimbal_pitch	2	Number	# gimbal pitch, -180*100 ~ +180*100			
	4	gimbal_yaw	2	Number	# gimbal yaw, -180*100 ~ +180*100			
	6	magneticencoder_roll	2	Number	# gimbal magnetic encoder roll, -180*100 ~ +180*100 該当情報がない場合は0とする			
	8	magneticencoder_pitch	2	Number	# gimbal magnetic encoder pitch, -180*100 ~ +180*100 該当情報がない場合は0とする			
	10	magneticencoder_yaw	2	Number	# gimbal magnetic encoder yaw, -180*100 ~ +180*100 該当情報がない場合は0とする			

#### 2.54 Copter AttStatus

#### (ドローンの姿勢情報通知) ※本機能を操作される場合は、本2.51の設定を「0:Off」に設定が必要です。

<i>-</i>	copici Attotatas		(   _	ンジスカートは地へい	**************************************			
	Control Sele	ctor		Extension Unit Control3 #0x2				
	Mandatory Requests  wLlength			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
				8				
Ì	OffSet	Field	Size	Value	Description			
	0	quaternion_wxyz_e4_1	2	Number	# quaternion_wxyz_e4[0] = q.w (or q.q0) * 1e4f			
	2	quaternion_wxyz_e4_2	2	Number	# quaternion_wxyz_e4[1] = q.x (or q.q1) * 1e4f			
	4	quaternion_wxyz_e4_3	2	Number	# quaternion_wxyz_e4[2] = q.y (or q.q2) * 1e4f			
	6	quaternion_wxyz_e4_4	2	Number	# quaternion_wxyz_e4[3] = q.z (or q.q3) * 1e4f			

#### 2.55 Gimbal Control Data

#### (パンチルト指示通知) ※本機能を操作される場合は、本2.51の設定を「0:Off」に設定が必要です。

33 Girribar Corta or Data				(+Will CIX   FC   10 %   G   C   C   C   C   C   C   C   C   C			
Control Selector			Extension Unit Control3 #0x3				
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN				
wLlengti	ı		6				
OffSet	Field	Size	Value	Description			
0	pitch_cmd_type	1	Number	# 0 指示ない(姿勢変更なし,その場で留まる) # 2 角度指定 (姿勢変更) # 3 角速度指定 (姿勢変更)			
1	yaw_cmd_type	1	Number	※姿勢変更があるまで、起動時のセンター初期化動作で割り出したセンター位置を基点に補正動作する ※姿勢変更中に0:指示なしを受けた場合はその場で留まる			
2	pitch_cmd_value	2	Number	# cmd_value is value of control. LSB is 0.01, unit is degree (Angle mode) or degree/ s (Angular velocity mode) (角度範囲は一115degから+45deg +:上向き) ※uintとなっていますがデータの扱いはintとしてください。 ※pitch_cmd_type=0の時、pitch_cmd_valueは何でも良い			
4	yaw_cmd_value	2	Number	# cmd_value is value of control. LSB is 0.01, unit is degree (Angle mode) or degree/ s (Angular velocity mode) (角度範囲は-85degから+85deg) ※uintとなっていますがデータの扱いはintとしてください。 ※yaw_cmd_type=0の時、yaw_cmd_valueは何でも良い			

#### 2.56 Gps Data

#### (GPS情報通知) ※本機能を操作される場合は、本2.51の設定を「0:Off」に設定が必要です

Gps Data			(GPS情報通知) ※本機能を操作される場合は、本2.51の設定を 10:OH] に設定が必要です。					
Control S	Control Selector			Extension Unit Control3 #0x4				
Mandatory Requests			SET_CUR, GET_CUR, GET_MIN, GET_MAX, GET_INFO, GET_DEF, GET_RES,GET_LEN 33					
wLlen	wLlength							
OffSet	Field	Size						
0	gps_status	1	Number	"0:無効(Gnss Statusが有効ではない。FCUの判定値以下。この時、order以外のフィールドは全て0となる)				
1	order	1	Number	順番フィールド、要求数の最古の情報を1として以降インクリメント。 値範囲 1~21 および 0				
2	remain_buffer	1	Number	残パッファ数(0-21) 送付時点での保持データ数を返す。0が空。				
3	utc_year	2	Number	年 (西暦)				
5	utc_month	1	Number	月 (1~12)				
6	utc_day	1	Number	日 (1~31)				
7	utc_hour	1	Number	時 (0~23)				
8	utc_minute	1	Number	☆ (0~59)				
9	utc_seconds	4	Number	秒(少数点:0~60未満)				
13	latitude	8	Number	緯度 北緯が+ -90~+90 (単位:deg)				
21	longitude	8	Number	経度 東経が+ -180〜+180 (単位:deg)				
29	altitude	4	Number	海抜高度 (単位:m)				

# 改訂履歴

Version	改訂日	改訂内容	FW
Ver.1.0.0	22/1/6	新規作成	
Ver.1.0.1	22/1/6	Extension Unit 1-3 Descriptorにモデル毎のパラメータ追加	
Ver.1.0.2	22/2/10	2.27 Interval timer Control: CX-GB300のインターバル時間に2,3秒を追加	
		2.12 Exposure Mode Control: CX-GB200,400の露光モード「Aperture」を	
		「Program」に変更	
		2.32 Get Status, bVideoRemainTime, bPhotoRemainCount :動画中静止画時	
		の表示条件を追記	
Ver.1.0.3	22/3/16	2.4 Burst Shot : スフィア撮影開始/停止通知である旨を追記	
		2.12 Exposure Mode Control: デフォルトをManualからProgramに変更	
		2.41 Digital Zoom Magnification: CX-GB400のパラメータ修正	
		2.45 Through Output Mode: CX-GB300のパラメータ追加	
		2.48 Camera Position: リリース	
		2.51 UAVCAN Enable Setting: デフォルト追記	
		2.52 Sharpnessを追加	
Ver.1.0.4	22/3/28	2.41 Digital Zoom Magnification: CX-GB400のパラメータ修正	
Ver1.0.5	22/7/15	2.34 One Shot AFのDefaultを削除	
		2.41 Digital Zoom MagnificationのCX-GB400の【T.B.D】削除	
		2.48 Camera Positionにパン軸固定を追加	
		2.51~2.56: 実装完了	
		ファイル名「UVC_CommandList_ver.1.0.4」の変更	
Ver1.0.6	22/7/27	2.33 Focus Frame Position デフォルトを追加	
		2.41 Digital Zoom Magnification CX-GB200の値を追加	
		2.45 Through Output Mode CX-GB300有効化	
		2.55 Gimbal Control Data Description変更	
Ver1.0.7		2.48 Camera Position 自動判定を追加。デフォルトを変更	
Ver1.0.8	, ,	2.10 Shooting Mode Control CX-GB100にSphereモードを追加	
Ver1.0.9		2.32 Get Status ジンバルエラー状態と温度上昇警告の内容を修正	
Ver1.1.0	23/4/24	2.50 IRセンサ FFC Control IDとCommandTypeを修正 2.26 EIS Mode Control 初期値を変更	
\/ord 1 1	24/2/0		1 15
Ver1.1.1	24/2/8	2.45 Through Output Mode Picture in PictureとSuperimposeの値の誤記修正	1.15