# DOMINO 20H DOMINO 30H DLP™ VIDEO PROJECTOR



# RS-232C CONTROL SPECIFICATIONS

Document Revision 1.1 (20 July 2004)





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## Revision History:

Revision	Date	Software Version	<b>Description of Change</b>
1.1	20 July 2004	2.36.09 F or higher	Auto Sync on Inputs 5/6/7/8 added.
1.0	20 April 2004	2.33.00 F or higher	Initial version.



## 1. Introduction

This document describes the communication and data formats used to control SIM2 DOMINO 20H / DOMINO 30H projectors via RS-232C port.

## 2. Connection

Switch off your Personal Computer and Projector before connecting RS 232C cable.

Use a standard serial cable with 9 pin female to the Personal Computer and 9 pin male to the Projector: pin 2 connects to pin2, pin 3 to pin 3 and pin 5 to pin 5.

SIM2 DOMINO 20H / DOMINO 30H RS-232C Port is described as follows.

## SIM2 DOMINO 20H / DOMINO 30H RS-232C Control Port:

D CHD O	Pin No	Signal	Definition
D-SUB 9-pin (female)	1	N/A	Not used
(remaile)	2	TD	Transmit data
	3	RD	Receive data
5 \ 0 0 0 0 0   1	4	N/A	Not used
$9 \setminus \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc 6$	5	GND	Ground
	6	N/A	Not used
	7	N/A	Not used
	8	N/A	Not used
	9	N/A	Not used

Switch on the Personal Computer and, after start up, switch on the Projector.

Load a suitable communication software onto your Personal Computer, and set the Serial Port Parameters as shown below.

#### **Communication Parameters:**

Parameter	Value
Transfer Rate	19200 bps
Data Bits	8
Parity Bit	None
Stop Bit	1
Flow Control	None

Set Send Mode and Read Mode to HEX.



## 3. Communication Protocol

The communication protocol is packet oriented. Packets consists of Header and Payload.

There are two types of packets: Event and Operation.

The packet header size is fixed (7 bytes), while the packet payload type and content varies based on the type of packet: Event payload size is 6 bytes, while Operation payload size is 25 bytes.

The entire packet size is variable, being the sum of the fixed-size packet header and variable-sized packet payload: Event packet size is 13 bytes and Operation packet size is 32 bytes.

Each packet received by the projector is acknowledged with a return code:

- 06: Acknowledged with no error
- 15: Acknowledged, but an error has occurred.

#### Header

All Packets use the same Packet Header format.

The Packet Header size is fixed at seven bytes.

0	1	2	3	4	5	6
BE	EF	Packet Type	Packet Pa	yload Size	Packet Chec	ksum (CRC)

**0xEFBE** is a fixed value that is used to insure packet alignment if there are partial packets received or byte lost. The Is-byte of the word 0xBE is sent first, then the ms-byte 0xEF.

The **Packet Type** is a number (a byte in length) that defines the type of data in the packet.

The **Packet Payload Size** is a number (two bytes) that defines the size of the payload portion of the packet.

For a given Packet Type, Packet Size is fixed.

The **Packet Checksum** (two bytes) is the CRC value for the entire packet (Header and Payload).

## **Payload**

The packet payload format depends on the packet type.

The Event packet payload size is 6 bytes, while the Operation packet payload size is 25 bytes.

#### **Event Packet Format:**

0	1	2	3	4	5
Event		00	00	00	00

## **Operation Packet Format:**

0	1	2	3	4	5	6	7	8	9	10	11	12
Ор Туре	Opera	ition ID	0.0	00	Tai	rget		Operation	on Value		0.0	00
13	14	15	16	17	18	19	20	21	22	23	24	



## 4. Commands

## Remote Control Keycodes

The following commands send simulated Remote Control input to SIM2 DOMINO 20H / DOMINO 30H projectors.

## Remote Control Keycodes:

Key	Com	man	d										
STAND BY	BE	EF	02	06	00	51	E4	48	01	00	00	00	00
0 (1)	BE	EF	02	06	00	6B	E6	52	01	00	00	00	00
1 (2)	BE	EF	02	06	00	80	E5	49	01	00	00	00	00
2 <sup>(2)</sup>	BE	EF	02	06	00	вз	E5	4A	01	00	00	00	00
3 (2)	BE	EF	02	06	00	62	E4	4B	01	00	00	00	00
4 (2)	BE	EF	02	06	00	D5	E5	4C	01	00	00	00	00
5 <sup>(2)</sup>	BE	EF	02	06	00	04	E4	4D	01	00	00	00	00
6	BE	EF	02	06	00	37	E4	4 E	01	00	00	00	00
7	BE	EF	02	06	00	E6	E5	4 F	01	00	00	00	00
8	BE	EF	02	06	00	89	E7	50	01	00	00	00	00
9	BE	EF	02	06	00	58	E6	51	01	00	00	00	00
ESC	BE	EF	02	06	00	0D	E6	54	01	00	00	00	00
CURSOR UP	BE	EF	02	06	00	DC	E7	55	01	00	00	00	00
CURSOR LEFT	BE	EF	02	06	00	EF	E7	56	01	00	00	00	00
CURSOR RIGHT	BE	EF	02	06	00	3E	E6	57	01	00	00	00	00
CURSOR DOWN	BE	EF	02	06	00	C1	E6	58	01	00	00	00	00
MENU LEFT (-)	BE	EF	02	06	00	10	E7	59	01	00	00	00	00
MENU RIGHT (+)	BE	EF	02	06	00	23	E7	5A	01	00	00	00	00
FREEZE	BE	EF	02	06	00	F2	E6	5B	01	00	00	00	00
ZOOM	BE	EF	02	06	00	94	E6	5D	01	00	00	00	00
FOCUS	BE	EF	02	06	00	76	E7	5F	01	00	00	00	00
INFO	BE	EF	02	06	00	A7	E6	5E	01	00	00	00	00
AUTO	BE	EF	02	06	00	79	E2	60	01	00	00	00	00
ASPECT NORMAL	BE	EF	02	06	00	2A	F4	83	01	00	00	00	00
ASPECT ANAMORPHIC	BE	EF	02	06	00	9D	F5	84	01	00	00	00	00
ASPECT LETTERBOX	BE	EF	02	06	00	4 C	F4	85	01	00	00	00	00
ASPECT PANORAMIC	BE	EF	02	06	00	7F	F4	86	01	00	00	00	00
ASPECT PIXEL TO PIXEL	BE	EF	02	06	00	AE	F5	87	01	00	00	00	00
ASPECT USER 1	BE	EF	02	06	00	51	F5	88	01	00	00	00	00
ASPECT USER 2	BE	EF	02	06	00	80	F4	89	01	00	00	00	00
ASPECT USER 3	BE	EF	02	06	00	В3	F4	8A	01	00	00	00	00
VCR	BE	EF	02	06	00	9B	E3	62	01	00	00	00	00



## Direct access codes

Goto Brightness	BE	EF	02	06	00	C7	E1	7E	01	00	00	00	00
Goto Contrast	BE	EF	02	06	00	16	ΕO	7F	01	00	00	00	00
Goto Color	BE	EF	02	06	00	19	F4	80	01	00	00	00	00
Goto Tint	BE	EF	02	06	00	С8	F5	81	01	00	00	00	00

<sup>(1)</sup> When the unit is in Stand-by state, this command switches on the unit and the last source memorised prior to switch off is automatically selected.

(2) When the unit is in Stand-by state, this command switches on the unit and selects the corresponding

Source.



## **Operation Codes**

The following codes provide direct access to SIM2 DOMINO 20H / DOMINO 30H User Interface operations not accessible via a single Remote Control command.

## Operation Codes:

Operation	Action	Coı	mma	nd													
	INCREMENT	BE	EF	03	19	00	AB	7E	03	00	08	00	00	00	00	00	00
BRIGHTNESS	INCREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
DRIGHTIVESS	DECREMENT	BE	EF	03	19	00	C5	D4	04	00	08	00	00	00	00	00	00
	DEGREE IEIT	00	00	0.0	00	0.0	00	00	00	00	0.0	0.0	0.0	00	0.0	00	00
	INCREMENT	BE 00	EF 00	03	19	00	3E 00	23	03	01	08	00	00	00	00	00	00
CONTRAST		BE	EF	03	19	00	50	89	04	01	08	00	00	00	00	00	00
	DECREMENT	00	00	00	00	00	00	00	00	0.0	00	00	0.0	00	00	00	00
	TALODEMENT	BE	EF	03	19	00	C1	C7	03	02	08	0.0	0.0	00	00	00	0.0
COLOR	INCREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
COLOR	DECREMENT	BE	EF	03	19	00	AF	6D	04	02	08	00	00	00	00	00	00
	DECKEMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	INCREMENT	BE	EF	03	19	00	54	9A	03	03	8 0	00	00	00	00	00	00
TINT		00	00	0.0	00	0.0	0.0	0.0	0.0	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	DECREMENT	BE 00	EF 00	03	19	00	3A 00	30	04	03	08	00	00	00	00	00	00
		BE	EF	03	19	00	7E	0C	03	04	0.0	00	00	00	00	00	00
	INCREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
SHARPNESS (Video)		BE	EF	03	19	00	10	A6	04	04	08	0.0	0.0	00	00	0.0	0.0
	DECREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	LINCREMENT	BE	EF	03	19	00	D4	C4	03	09	08	00	00	00	00	00	00
SHARPNESS FILTER		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
SHARFINESSTILTER	DECREMENT	BE	EF	03	19	00	BA	6E	04	09	8 0	00	00	00	00	00	00
	DECREMENT	0.0	00	00	00	00	00	00	00	00	00	0.0	0.0	00	00	0.0	00
	SET VIDEO	BE	EF	03	19	00	7A	80	01	60	02	00	00	00	00	00	00
SHARPNESS MODE		00	00 EF	00	19	00	00 EA	00	00	60	00	0.0	00	00	0.0	00	00
	SET GRAPHICS	BE 01	00	00	00	00	00	00	0.0	00	00	00	00	00	00	00	00
		BE	EF	03	19	00	33	43	01	07	08	0.0	00	00	00	00	0.0
	SET OFF	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
CINEMA MODE	CET ALITO	BE	EF	03	19	00	А3	82	01	07	08	00	00	00	00	00	00
	SET AUTO	01	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	SET NORMAL	BE	EF	03	19	00	<b>A</b> 6	1E	01	06	08	00	00	00	00	00	00
VIDEO TYPE	JET NORMAL	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
VIDEOTTIE	SET VCR	BE	EF	03	19	00	36	DF	01	06	08	00	00	00	00	00	00
		01	00	00	00	00	00	00	00	00	0.0	0.0	00	00	00	0.0	0.0
DOCITION	INCREMENT	00 BE	EF 00			00		00	03		80	00	00	00	0.0		00
POSITION HORIZONTAL		BE	EF	00	19	00	3B	10	04	21	08	00	0.0	00	00	00	00
HORIZONTAL	DECREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
		BE	EF	03	19	00	AA		03	22	08	0.0	0.0	00	00	0.0	0.0
POSITION	INCREMENT	00	00	00		00		00			00	00	00	00	00	00	00
VERTICAL	DECDEMENT	BE	EF	03	19	00	C4	F4	04	22	08	00	00	00	00	00	00
	DECREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
COLOR SET HIGH  COLOR SET MEDIUM  TEMPERATURE  SET LOW  SET LISER	SET HIGH	BE	EF	03	19	00	CD	17	01	37	08	00	00	00	00	00	00
	OLI HIGH	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	SET MEDILIM	BE	EF	03	19	00	5D		01	37	08	00	00	00	00	00	00
	SET TIEDION	01	00		00	00		00			00	00	00	00	00	00	00
	SET LOW	BE		03	19	00	AC	-	01		8 0	00	00	00	00	00	00
		02	00	00	00	0.0		00	00	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	BE		03	19	0.0		57		37	80	0.0	0.0	0.0	0.0	00	00	
		03	υÜ	υU	UU	υU	υÜ	00	υU	υU	υU	00	υU	UU	υU	00	00



		BE	EF	03	19	0.0	EA	E1	03	36	0.8	0.0	0.0	00	0.0	0.0	00
COLOR TEMP USER/	INCREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
GAIN RED	DECREMENT	BE	EF	03	19	00	84	4B	04	36	08	00	00	00	00	00	00
	DECKLIMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
COLOR TEMPLICED	INCREMENT	BE	EF	03	19	0.0	3B	DC	03	36	80	0.0	00	01	0.0	0.0	00
COLOR TEMP USER/ GAIN GREEN		00 BE	00 EF	00	00 19	00	00 55	00 76	00	36	00	00	00	00	00	00	00
GAIN GILLIN	DECREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	INCDEMENT	BE	EF	03	19	00	08	98	03	36	08	00	00	02	00	00	00
COLOR TEMP USER/	INCREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
GAIN BLUE	DECREMENT	BE	EF	03	19	00	66	32	04	36	80	00	00	02	00	00	00
		00 BE	00 EF	00	00 19	00	00 15	00	00	35	00	00	00	00	00	00	00
COLOR TEMP USER/	INCREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
OFFSET RED	DECDEMENT	BE	EF	03	19	00	7B	AF	04	35	08	00	00	00	00	00	00
	DECREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
COLOR TEMPLISER	INCREMENT	BE	EF	03	19	00	C4	38	03	35	80	00	00	01	00	00	00
COLOR TEMP USER/ OFFSET GREEN		00 BE	00 EF	00	00 19	00	00 AA	92	00	35	00	00	00	00	00	00	00
OIT JET UNLLIN	DECREMENT	00	00	00	00	00	00	00	00	00	00	00	00	0.0	00	00	00
	INCDEMENT	BE	EF	03	19	00	F7	7C	03	35	08	00	00	02	00	00	00
COLOR TEMP USER/	INCREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
OFFSET BLUE	DECREMENT	BE	EF	03	19	00	99	D6	04	35	8 0	00	00	02	00	00	00
		00 BE	00 EF	00	00 19	00	00 58	00 DA	00	27	00	00	00	00	00	00	0.0
	SET FILM	00	00	00	00	00	00	00	0.0	00	00	00	00	00	00	00	00
CANANAA	CET VIDEO	BE	EF	03	19	00	C8	1B	01	27	08	00	00	00	00	00	00
GAMMA	SET VIDEO	01	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	SET GRAPHICS	BE	EF	03	19	00	39	5B	01	27	08	00	00	00	00	00	00
		02	00	0.0	00	0.0	00	95	00	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	INCREMENT	BE 00	EF 00	03	19	00	15 00	95	03	24	08	00	00	00	00	00	00
FREQUENCY	D = 0D = 145.15	BE	EF	03	19	00	7B	3F	04	24	08	00	00	00	00	00	00
	DECREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	INCREMENT	BE	EF	03	19	00	80	C8	03	25	8 0	00	00	00	00	00	00
PHASE	THORE IEIT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	0.0	0.0
	DECREMENT	BE 00	EF 00	03	19	00	EE 00	62 00	04	25	08	00	00	00	00	00	00
			EF	03	19	00	7F		03	26	08	00	00	00	00	00	00
Y/C DELAY	INCREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
I/C DLLAI	DECREMENT	BE	EF	03	19	00	11	86	04	26	8 0	00	00	00	00	00	00
	1 2 2 3 1 2 1 1 2 1 1 1	00	00 EF	00	00 19	0.0	00 FF	00	0.0	0.0	00	0.0	00	0.0	00	00	0.0
	INCREMENT	00	00	00	00	00	00	72 00	03	2C 00	00	00	00	00	00	00	00
MAGNIFICATION	DECDEMENT		EF	03	19	00	91		04	2C	08	00	00	00	00	00	00
	DECREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	INCREMENT		EF	03	19	00		2F	03	2D	08	00	00	00	00	00	00
PAN HORIZONTAL		00	00	0.0	1.0	0.0	0.0	00	0.0	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DECREMENT	BE 00	EF 00	03	19	00	04	85 00	04	2D 00	0.0	00	00	00	0.0	00	00	
	TALODEN SELEC		EF	03	19	00	95	СВ	03	2E	08	00	00	00	00	00	00
PAN VERTICAL	INCREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
FAN VERTICAL	DECREMENT		EF	03	19	00	FB	61	04	2E	08	00	00	00	00	00	00
	DECKLIENT	00	00	00	00	0.0	00	0.0	00	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KEVSTONE	INCREMENT	BE 00	EF 00	03	19 00	00	01	26 00	03	1C 00	08 00	00	00	00	00	00	00
KEYSTONE   VERTICAL		BE	EF	03	19	00	6F	8C	04	1C	0.0	00	00	00	00	00	00
VERTICAL DI	DECREMENT				-			00									
	·																



		DE	1212	0.2	1.0	0.0	CD	ΟE	0.2	1 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L/EL/OTO NE	INCREMENT	BE	EF	03	19	00	6B	9F	03		8 0	00	00	00	00		
KEYSTONE		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
HORIZONTAL	DECREMENT	BE	EF	03	19	00	05	35	04	1E	8 0	00	00	00	00	00	00
	DECKLIMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	SET ENGLISH	BE	EF	03	19	00	15	35	01	05	24	00	00	00	00	00	00
	SET LINGLISH	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	SET ITALIANO	BE	EF	03	19	00	85	F4	01	05	24	00	00	00	00	00	00
	SLI ITALIANO	01	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	SET FRANCAIS	BE	EF	03	19	00	74	В4	01	05	24	00	00	00	00	00	00
LANCHACE		02	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
LANGUAGE	CET DELITCOU	BE	EF	03	19	00	E4	75	01	05	24	00	00	00	00	00	00
		03	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
		BE	EF	03	19	00	D6	37	01	05	24	00	00	00	00	00	00
	SET ESPANUL	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	SET PORTUGUES	BE	EF	03	19	00	46	F6	01	05	24	00	00	00	00	00	00
	SET PORTUGUES	05	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	TALCDEMENT	BE	EF	03	19	00	82	88	03	61	08	00	00	00	00	00	00
OSD POSITION	INCREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
HORIZONTAL	DECDEMENT	BE	EF	03	19	00	EC	22	04	61	08	00	00	00	00	00	00
	DECREMENT  INCREMENT	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
		BE	EF	03	19	00	7D	6C	03	62	08	00	00	00	00	00	00
OSD POSITION		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
VERTICAL		BE	EF	03	19	00	13	C6	04	62	08	00	00	00	00	00	00
	DECREMENT		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

INPUT 3 (COMP. RGB) / SIGNAL TYPE	SET YCrCb AutoSync	ΒE	EF	03	19	00	92	04	01	82	08	00	00	00	00	00	00
		14	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	SET YCrCb 15kHz	BE	EF	03	19	00	5B	0C	01	82	80	00	00	00	00	00	00
		08	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	SET YCrCb 32kHz	BE	EF	03	19	00	51	06	01	82	80	00	00	00	00	00	00
		10	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	SET RGB AutoSync	BE	EF	03	19	00	97	01	01	82	8 0	00	00	00	00	00	00
		18	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	SET RGB 15kHz	BE	EF	03	19	00	5E	09	01	82	80	00	00	00	00	00	00
		04	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	SET RGB 32kHz	BE	EF	03	19	00	98	0E	01	82	08	00	00	00	00	00	00
		0C	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

## 5. Examples

# 1. Send the simulated "SWITCH ON FROM STAND-BY AND SELECT SOURCE" Remote Control keycode.

Remote Control allows Switching on from Stand-by via one of the keys "1", "2" ... "5".

Send, for instance, the code relative to key "1": BEEF02060080E54901000000000.

The projector switches on and selects Input 1.

The projector returns the response code: 06 (Acknowledged with no error).

**NOTE**: Commands that simulate keys "1", "2" ... "5" switch on the unit and select the corresponding Source.

Command that simulate key 0 switches on the unit: the last source memorised prior to switch off is automatically selected.

## 2. Send the simulated "MENU RIGHT" Remote Control keycode.

Send the packet: BEEF02060023E75A0100000000.

The OnScreen Display appers on the screen.

The projector returns the response code: 06 (Acknowledged with no error).



## 3. Send the "SET ASPECT ANAMORPHIC" Operation Code.

Send the packet: BEEF0206009DF5840100000000.

The Aspect Ratio changes to Anamorphic.

The projector returns the response code: 06 (Acknowledged with no error).

## 4. Select "INPUT 3 (COMP. RGB) WITH YcrCb 15kHz SIGNAL"

Send the the code relative to the Key to which Input 3 has been assigned: for instance if the key is "3" the code is: BEEF02060062E44B0100000000

## 6. Warnings

When the number of bytes sent to the Projector is greater than indicated for the Command (32 bytes for Operation Packets and 13 bytes for Event Packets), excess data will be ignored.

Conversely, if number of bytes sent to the Projector is smaller than required by the Communication Protocol, an Error Code will be returned.

Allow a time interval of at least 40 ms between the Return Code and the following Command.