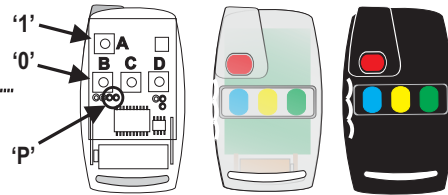


THE CHAMELEON.

REPLACE UP TO 16 TOTALLY INCOMPATIBLE REMOTE CONTROLS WITH.....

ONE !!!



Each individual button or combination of buttons can be programmed to function when pressed - as a particular make of transmitter each with a different code. Although there are different manufacturers of remote controls ..all the products can be reduced to 5 most popular types;

- 1 - MAMI - 1,2,3 & 4 Channels + 10 Bit Dipswitch code (BINARY - ON/OFF) - MAMI. Use format 010 for use with MAMI panels for the ARM/DISARM function.
- 2 - MAMI SMART - 1,2,3 & 4 Channels + 16 Bit Dipswitch code (BINARY - ON/OFF) - MAMI SMART. Use format 011 for use with MAMI panels for the ARM/DISARM function.
- 3 - NS - 1 Channel + 12 Bit Dipswitch code (BINARY - ON/OFF) - NICE,HBA,TMS,EYE, HYDROCOROMA, QD(old), DIGITRONICS
- 4 - 1/NS - 1 Channel + 12 Bit Dipswitch code (BINARY - ON/OFF) - VISONIC, NICE (Europe)
- 5 - MOT - 1 Channel + 9 Bit Dipswitch code (BINARY - ON/OFF) - SHURELOCK,SHERLOTRONIQUE, BARTRONICS, MSI
- 6 -1/ MOT -1 Channel + 9 Bit Dipswitch code (TRINARY -POS/NEG/OPEN) - CONLOG, SCIMITAR

Each Manufacturer uses a different time base to send their code ... so we have provided a method to allow you to program groups 2 to 6 codes to run at different speeds. There is an 8 bit register which must be programmed (at the end of each code) to define the TIME BASE of that code.(see the programming instructions)

TABLE 1

MANUFACTURER.	TIME BASE	FORMAT	MANUFACTURER.	TIME BASE	FORMAT
M.A.M.I. (MOUSE)	NO TIME BASE REQUIRED	0 0 0	M.A.M.I. (SMART TRA)	NO TIME BASE REQUIRED	0 1 1
M.A.M.I. (SMART)	NO TIME BASE REQUIRED	0 0 1	M.A.M.I. (TELCOMA)	NO TIME BASE REQUIRED	0 0 0
M.A.M.I. (MOUSE TRA)	NO TIME BASE REQUIRED	0 1 0	M.A.M.I. (ECHO)	NO TIME BASE REQUIRED	0 0 0

Motorola

E.T.	0000 0000 (prov.)	110
BARTRONICS	0100 0000	110
M.S.I.	0000 0000 (prov.)	110
SHERLOTRONIQUE.	0101 0000	110
EUROLOCK	0100 0000	110
GOULAS EL..	0100 0000	110
SHERLOTRONIC (OLD)	0000 0000 (prov.)	110
Sentry/Martin	0000 0000 (prov.)	110
Quasar		110

Motorola Inverted

CONLOG	1000 0000	111
SCIMITAR	0100 0000	111
SANJI (433.92 MHz)	1000 0000	111

National

NICE / EYE	1000 0000	101
T.M.S.	0000 0000 (prov.)	101
HBA /J.F.	0110 0000	101
HYDROCOROMA	0000 0000 (prov.)	101
Q&D (OLD)	0110 1000	101
DIGITRONICS	0000 0000 (prov.)	101
SHURELOC-KEY	1000 0000	101
Martin	0110 0000	101
Bartronics (National)	0000 0000 (prov.)	101

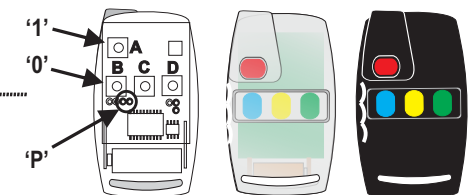
National Inverted

VISIONIC	0110 0000	100
NICE. (EUROPE)	1000 0000	100
CAME	0000 0000 (prov.)	100

THE CHAMELEON.

REPLACE UP TO 16 TOTALLY INCOMPATIBLE REMOTE CONTROLS WITH.....

ONE !!!



Each individual button or combination of buttons can be programmed to function when pressed - as a particular make of transmitter each with a different code. Although there are different manufacturers of remote controls ..all the products can be reduced to 5 most popular types;

- 1 - MAMI - 1,2,3 & 4 Channels + 10 Bit Dipswitch code (BINARY - ON/OFF) - MAMI. Use format 010 for use with MAMI panels for the ARM/DISARM function.
- 2 - MAMI SMART - 1,2,3 & 4 Channels + 16 Bit Dipswitch code (BINARY - ON/OFF) - MAMI SMART. Use format 011 for use with MAMI panels for the ARM/DISARM function.
- 3 - NS - 1 Channel + 12 Bit Dipswitch code (BINARY - ON/OFF) - NICE,HBA,TMS,EYE, HYDROCOROMA, QD(old), DIGITRONICS
- 4 - 1/NS - 1 Channel + 12 Bit Dipswitch code (BINARY - ON/OFF) - VISONIC, NICE (Europe)
- 5 - MOT - 1 Channel + 9 Bit Dipswitch code (BINARY - ON/OFF) - SHURELOCK,SHERLOTRONIQUE, BARTRONICS, MSI
- 6 -1/ MOT -1 Channel + 9 Bit Dipswitch code (TRINARY -POS/NEG/OPEN) - CONLOG, SCIMITAR

Each Manufacturer uses a different time base to send their code ... so we have provided a method to allow you to program groups 2 to 6 codes to run at different speeds. There is an 8 bit register which must be programmed (at the end of each code) to define the TIME BASE of that code.(see the programming instructions)

TABLE 1

MANUFACTURER.	TIME BASE	FORMAT	MANUFACTURER.	TIME BASE	FORMAT
M.A.M.I. (MOUSE)	NO TIME BASE REQUIRED	0 0 0	M.A.M.I. (SMART TRA)	NO TIME BASE REQUIRED	0 1 1
M.A.M.I. (SMART)	NO TIME BASE REQUIRED	0 0 1	M.A.M.I. (TELCOMA)	NO TIME BASE REQUIRED	0 0 0
M.A.M.I. (MOUSE TRA)	NO TIME BASE REQUIRED	0 1 0	M.A.M.I. (ECHO)	NO TIME BASE REQUIRED	0 0 0

Motorola

E.T.	0000 0000 (prov.)	110
BARTRONICS	0100 0000	110
M.S.I.	0000 0000 (prov.)	110
SHERLOTRONIQUE.	0101 0000	110
EUROLOCK	0100 0000	110
GOULAS EL..	0100 0000	110
SHERLOTRONIC (OLD)	0000 0000 (prov.)	110
Sentry/Martin	0000 0000 (prov.)	110
Quasar		110

Motorola Inverted

CONLOG	1000 0000	111
SCIMITAR	0100 0000	111
SANJI (433.92 MHz)	1000 0000	111

National

NICE / EYE	1000 0000	101
T.M.S.	0000 0000 (prov.)	101
HBA /J.F.	0110 0000	101
HYDROCOROMA	0000 0000 (prov.)	101
Q&D (OLD)	0110 1000	101
DIGITRONICS	0000 0000 (prov.)	101
SHURELOC-KEY	1000 0000	101
Martin	0110 0000	101
Bartronics (National)	0000 0000 (prov.)	101

National Inverted

VISIONIC	0110 0000	100
NICE. (EUROPE)	1000 0000	100
CAME	0000 0000 (prov.)	100

HOW TO PROGRAM THE CHAMELEON

1 - Insert the programming jumper into the pins marked "P"

The L.E.D. will give a long flash .
And 4 short ones
The L.E.D. will give a short flash .

2- Use buttons "A" and "B" to enter the FORMAT.
(button A for 1 , button B for 0).

The L.E.D. will give a short flash .
The L.E.D. will give a short flash .

3 - enter which button combination will send the selected format /code

The L.E.D. will give a short flash .

4 - (MAMI ONLY !!) enter which CHANNEL combination to be sent

The L.E.D. will give a short flash .

4 - enter the dip switch code (from the highest no)

The L.E.D. will give two short flashes .

4 - (Non MAMI format only !!!) enter the time base (8 bits).

The led will flash twice and then flash continuously until the 'PRG' jumper is removed. If the led starts flashing continuously before all data is entered, remove and reinsert the 'PRG' to start from the beginning. No changes will be made.

Here are some examples:

0 0 0 MAMI FORMAT:

1a - Enter "0, 0, 0 to indicate "MAMI" format or "0 0 1" to indicate MAMI SMART format.
2a - Enter the button/s you want to use for this code (4 bits)
3a - Enter the channel you want to send (4 bits)
4a - Enter the 10 or 16 bit dip switch code ,(ON=1 OFF=0)

EXAMPLE: WHEN PRESSING BUTTONS "A" AND "B" TOGETHER SEND MAMI CODE (DIPSWITCH = 0011000111), WITH CHANNEL 1 ACTIVE.

FORMAT	WHICH BUTTON	WHICH CHANNEL	DIP SWITCH SETTING
DCBA	4321	4321	10 9 8 7 6 5 4 3 2 1
000	0001	0001	0011000111

(MAMI FORMAT) BUTTON 1 CH 1 DIP 10----->DIP 1

0 0 1 MAMI SMART FORMAT:

DCBA	4321	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	
001	0010	0010	00100101111000111

(SMARTI FORMAT) BUTTON 2 CH 2 DIP 16----->DIP 1

1 0 1 FORMAT (NS)

1a - Enter "1 0 1 to indicate "NS" format or "1 0 0" to indicate "1/NS" format
2a - Enter the button/s you want to use for this code (4 bits)
3a - Enter the 12 dip switch code ,(ON=1 OFF=0) (10 bits)
4a - Enter the time base value (8 bits) - see table on page 1

EXAMPLE: WHEN PRESSING BUTTON "C", SEND NATIONAL CODE (DIP SWITCH = 101111000111), with a time base of 01100000

FORMAT	WHICH BUTTON	DIP SWITCH SETTING	TIME BASE VALUE
DCBA	12 11 10 9 8 7 6 5 4 3 2 1	12 11 10 9 8 7 6 5 4 3 2 1	
101	0100	101111000111	01100000

(Nat. S. FORMAT) BUTTON 3 DIP 12----->DIP 1 (MARTIN)

1 0 0 FORMAT (1/NS)

DCBA	12 11 10 9 8 7 6 5 4 3 2 1	12 11 10 9 8 7 6 5 4 3 2 1	
100	0100	101111000111	00000000

(1/Nat. S. format) BUTTON 3 DIP 12----->DIP 1 (CAME)

1 1 0 FORMAT (MOT)

1a - Enter "1 1 0 to indicate "MOT" format or "1 1 1" to indicate "1/MOT" format
2a - Enter the button/s you want to use for this code (4 bits)
3a - Enter the 9 dip switch code ,(pos=11, neg=00, open = 01 (18 bits)
4a - Enter the time base value (8 bits) - see table on page 1

NOTE: The Motorola coding is trinary It is therefore necessary to use 2 bits to define the possible 3 levels of each switch in the dip switch . (POSITIVE = 11, NEGATIVE = 00 , OPEN = 01)

EXAMPLE: WHEN PRESSING BUTTON "D" SEND BARTRONICS CODE (DIP SWITCH + TIME BASE)

FORMAT	WHICH BUTTON	DIP SWITCH SETTING	TIME BASE VALUE
DCBA	9 8 7 6 5 4 3 2 1	9 8 7 6 5 4 3 2 1	
110	1000	11 11 00 00 01 01 11 00 01	0 1 0 0 0 0 0 0

(MOT. format) BUTTON "D" DIP 9----->DIP 1 (BARTRONICS)

1 1 1 FORMAT (1/MOT)

DCBA	9 8 7 6 5 4 3 2 1	9 8 7 6 5 4 3 2 1	
111	1000	11 11 00 00 01 01 11 00 01	0 1 0 0 0 0 0 0

(1/MOT format) BUTTON "D" DIP 9----->DIP 1 (SCIMITAR)

HOW TO PROGRAM THE CHAMELEON

1 - Insert the programming jumper into the pins marked "P"

The L.E.D. will give a long flash .
And 4 short ones
The L.E.D. will give a short flash .

2- Use buttons "A" and "B" to enter the FORMAT.
(button A for 1 , button B for 0).

The L.E.D. will give a short flash .
The L.E.D. will give a short flash .

3 - enter which button combination will send the selected format /code

The L.E.D. will give a short flash .

4 - (MAMI ONLY !!) enter which CHANNEL combination to be sent

The L.E.D. will give a short flash .

4 - enter the dip switch code (from the highest no)

The L.E.D. will give two short flashes .

4 - (Non MAMI format only !!!) enter the time base (8 bits).

The led will flash twice and then flash continuously until the 'PRG' jumper is removed. If the led starts flashing continuously before all data is entered, remove and reinsert the 'PRG' to start from the beginning. No changes will be made.

Here are some examples:

0 0 0 MAMI FORMAT:

1a - Enter "0, 0, 0 to indicate "MAMI" format or "0 0 1" to indicate MAMI SMART format.
2a - Enter the button/s you want to use for this code (4 bits)
3a - Enter the channel you want to send (4 bits)
4a - Enter the 10 or 16 bit dip switch code ,(ON=1 OFF=0)

EXAMPLE: WHEN PRESSING BUTTONS "A" AND "B" TOGETHER SEND MAMI CODE (DIPSWITCH = 0011000111), WITH CHANNEL 1 ACTIVE.

FORMAT	WHICH BUTTON	WHICH CHANNEL	DIP SWITCH SETTING
DCBA	4321	4321	10 9 8 7 6 5 4 3 2 1
000	0001	0001	0011000111

(MAMI FORMAT) BUTTON 1 CH 1 DIP 10----->DIP 1

0 0 1 MAMI SMART FORMAT:

DCBA	4321	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	
001	0010	0010	00100101111000111

(SMARTI FORMAT) BUTTON 2 CH 2 DIP 16----->DIP 1

1 0 1 FORMAT (NS)

1a - Enter "1, 0, 1 to indicate "NS" format or "1 0 0" to indicate "1/NS" format
2a - Enter the button/s you want to use for this code (4 bits)
3a - Enter the 12 dip switch code ,(ON=1 OFF=0) (10 bits)
4a - Enter the time base value (8 bits) - see table on page 1

EXAMPLE: WHEN PRESSING BUTTON "C", SEND NATIONAL CODE (DIP SWITCH = 101111000111), with a time base of 01100000

FORMAT	WHICH BUTTON	DIP SWITCH SETTING	TIME BASE VALUE
DCBA	12 11 10 9 8 7 6 5 4 3 2 1	12 11 10 9 8 7 6 5 4 3 2 1	
101	0100	101111000111	01100000

(Nat. S. FORMAT) BUTTON 3 DIP 12----->DIP 1 (MARTIN)

1 0 0 FORMAT (1/NS)

DCBA	12 11 10 9 8 7 6 5 4 3 2 1	12 11 10 9 8 7 6 5 4 3 2 1	
100	0100	101111000111	00000000

(1/Nat. S. format) BUTTON 3 DIP 12----->DIP 1 (CAME)

1 1 0 FORMAT (MOT)

1a - Enter "1 1 0 to indicate "MOT" format or "1 1 1" to indicate "1/MOT" format
2a - Enter the button/s you want to use for this code (4 bits)
3a - Enter the 9 dip switch code ,(pos=11, neg=00, open = 01 (18 bits)
4a - Enter the time base value (8 bits) - see table on page 1

NOTE: The Motorola coding is trinary It is therefore necessary to use 2 bits to define the possible 3 levels of each switch in the dip switch . (POSITIVE = 11, NEGATIVE = 00 , OPEN = 01)

EXAMPLE: WHEN PRESSING BUTTON "D" SEND BARTRONICS CODE (DIP SWITCH + TIME BASE)

FORMAT	WHICH BUTTON	DIP SWITCH SETTING	TIME BASE VALUE
DCBA	9 8 7 6 5 4 3 2 1	9 8 7 6 5 4 3 2 1	
110	1000	11 11 00 00 01 01 11 00 01	0 1 0 0 0 0 0 0

(MOT. format) BUTTON "D" DIP 9----->DIP 1 (BARTRONICS)

1 1 1 FORMAT (1/MOT)

DCBA	9 8 7 6 5 4 3 2 1	9 8 7 6 5 4 3 2 1	
111	1000	11 11 00 00 01 01 11 00 01	0 1 0 0 0 0 0 0

(1/MOT format) BUTTON "D" DIP 9----->DIP 1 (SCIMITAR)