

Title:	Connecting a microphone to HikVision Cameras				
Date:	06/13/2014	Version:	2.0	Pages	3
Product:	Special order IP cameras with Flying leads				
Action Required:	Information only				

PRO SERIES CAMERAS

The **PRO** Series Special order IP cameras have 17 flying leads. Those are used for alarm input/output, audio input/output and RS485 (**Figure 1**).



Figure 1.

Even though the leads are labeled, sometimes it is unclear which wires need to be used together. **Table 1** shows the definition of each wire, as well as the wires that should be used together.

Color	Label	Definition	
Brown	ALARMINA	Alarm In #1	} Alarm input #1
Black	ALARMIN_GND	Alarm Ground	
Orange	ALARMINB	Alarm in #2	} Alarm input #2
Black	ALARMIN_GND	Alarm Ground	
Green	OUT1A	Alarm output contact	} Alarm output #1
Blue	OUT1B	Alarm output contact	
Purple	OUT2A	Alarm output contact	} Alarm output #2
White	OUT2B	Alarm output contact	
Black	GND	Ground	- Ground*

Table 1 (Continues on next page).

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Color	Label	Definition	
Black	LINEIN_GND	Microphone input ground	} Microphone Input**
Red	RIN/MIC+	Microphone input +	
Black	LIN/MIC-	Microphone input -	
Grey	LINEOUT_R	Right audio output	} Audio Output
Brown	LINEOUT_L	Left audio output	
Black	LINEOUT_GND	Audio output ground	
Yellow	RS485-	RS485+	} RS485
Red	RS485+	RS485-	

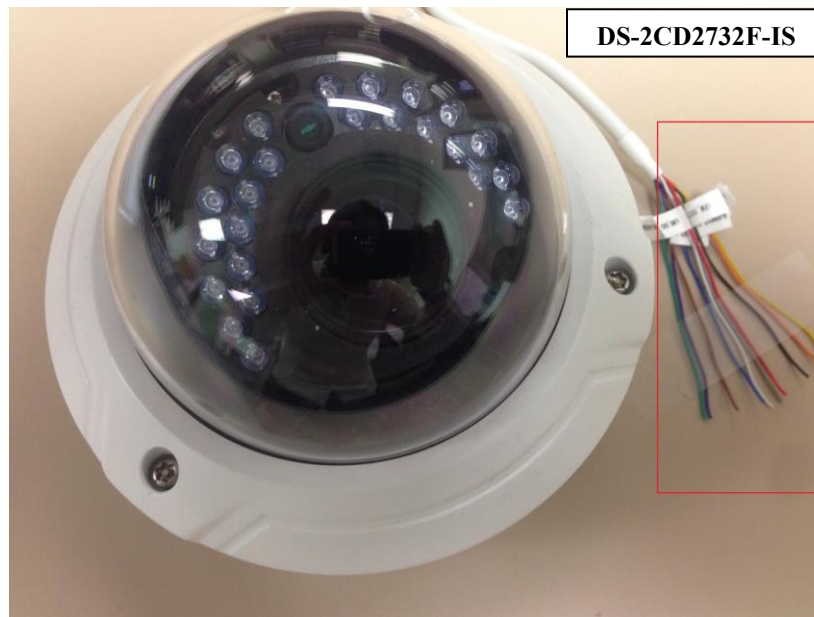
Table 1 (Resumed).

***Ground-** Ground is used only when there is a need to ground the alarm output circuit. The ground wire is connected to the camera's metal base.

** **Microphone Input** – Depending on the type of the microphone (line level or mic level), the “Microphone input ground” might or might not be used (**please refer to the “MICROPHONE CONNECTION” technical bulletin**).

VALUE SERIES CAMERAS

The **VALUE** Series Special order IP cameras have only 10 flying leads. Those are used for alarm input/output and audio input/output (**Figure 2**).



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Figure 2

Table 2 shows the definition of each wire, as well as the wires that should be used together.

Color	Label	Definition	
Green	ALARMIN_GND	Alarm in Ground	} Alarm input
Blue	ALARM_IN	Alarm in	
White	ALARMOUT_GND	Alarm out Ground	} Alarm output
Black	ALARM_OUT	Alarm out	
Grey	MIC_GND	Microphone input ground	} Microphone Input*
Yellow	RIN/MIC+	Microphone input +	
Orange	LIN/MIC-	Microphone input -	
Red	LINE_GND	Alarm output contact	} Audio Output
Brown	LINE_OUT_R	Right audio output	
Purple	LINE_OUT_L	Left audio output	

Table 2

* **Microphone Input** –Just like with **PRO** Series cameras, depending on the type of the microphone (line level or mic level), the “Microphone input ground” might or might not be used (**please refer to the “TECHNICAL BULLETIN MICROPHONE CONNECTION” technical bulletin**).

The **VALUE** Series Special order IP cameras have only 10 flying leads. The difference between the **VALUE** Series and **PRO** Series is shown in the table below (**Table 3**).

	PRO Series	VALUE Series
Alarm Input	2	1
Alarm Output	2	1
Microphone input	1	1
Audio Output	1	1
Ground	1	0
RS-485	1	0

Table 3